Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ..... (4)

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
					DAVID		DUNLAP		OBSERVATORY		
						74"	LOG	BOOK			
						VOL-82					
						PLATE NO	: CEO 9811 —				
						SEP 95 —			DEC 95		

pg #5

Date 1995 September 11/12 Observers [KK] / Tn / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mt
	... continued from previous logbook (81)									
ce09811	COMP (Lost) not written on time							ThAr	4	
ce09811	ADS17149A HD224635	23 54 24	+33 10 12	2 36 06		2 01 W			1111	63
12	COMP							ThAr	4	
13	ADS17149B HD224636	"	"	2 57 34		2 23 W			1144	80
14	COMP							"	4	
15	ADS17149A HD224635	"	"	3 18 40		2 42 W			995	70
16	Comp							"	4	
17	BIAS(4)									
18	ADS17149B HD224636	"	"	3 39 21		3 00 W			833	58
19	Comp							ThAr	4	
20	COMP							"	4	
21	HD29139	4 30 11	+16 18 30	~~3 59 48~~ 4 01 31		1 28 E			30	500
22	COMP							ThAr	4	
23-29	FLAT X 7					3m W	+9°	Tung	2	
30/31	INBOARD/OUTBOARD	HARTMANN				"	"	ThAr		

Spectr. Temp. -100°C Dome Temp./Hum. 11.6°C/86.9% Transparency Conditions hazy, full moon (4)

Focus .235

Spectr. Temp. ..... Dome Temp./Hum. 11.4°C/90.1% @ FLATS

c1 c1 0 0 256 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	V ~~Pg.~~ Mag.	Sp.	CCD Inst.	X Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				ECHELLE 18.51	.5540	60μ W 410μ H	6300 Å				
4								3			
63	3"-4"	6.50	G0V					4	KK Vis Bin	sl. brighter and SE difficult to separate	1.4K
4								3			
80	3"-4"	6.70	BSC G0V					5	kk Vis Bin	sl. fainter and NW still tough to separate.	1.5K
4								3			
70	2"-4"	6.50	G0V					4	"	SE one well seperated this time	1.9K
4								3			
								1			
58		6.50	G0V					5	"		
4								3			
4								3			
500		0.85	K5^{+}III					4	Std. Vel	dome quite wet now α Tau	
4								3			
2						6cμ W 600μ H		2		Done closed. ↑ flats got stronger.	14.2K →14.3K
		All to D: and DAT only.				80μ W 460μ H		7/8		0 0 128 1024 8 1	

α Pg#1 Wed/Thurs

Date 1995 Sep 13/14 Observers [K.K.] T.A. Slat

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. M
cc098 32/33	Inbound/outbound			19 10		2 32W		ThAr	4/4	
34	B/HS			19 15						
35	Comp							ThAr	45	
36	HD137909	15 23 42	+29 27 01	20 13 44		4 06 W			431	200
37	Comp							ThAr	45	
38	HD137909	"	"	20 22 24		4 14W			393	200
39	Comp							"	45	
40	HD137909	"	"	20 30 31		4 22W			382	140
41	Comp							"	45	
42	BIAS(4)								—	
43	COMP							"	4	
44	AOS14270A	20 41 36	+15 32	20 49 12		0 16 E			1647	"
45	Comp							"	4	
46	AOS14270B	20 41 36	+15 32	21 20 13		0 16 W			1740	0
47	Comp							"	4	

CCD Spectr. Temp. −99.9°C Dome Temp./Hum. 70+7oH 20.8°C Transparency Conditions Partial clearing 8

Focus .247 (.247 in hoolars thought for focus test 14 Sep 15

Spectr. Temp. Dome Temp./Hum.

Exp.	Exp. Mtr.	Seeing	Pwr. Mag.	Sp.	Inst. echelle	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4/4					18.51	300 l/mm .5540	60u W 400u H	6300Å	7/8	focus test	0 0 128 1024 8 1 CCDFMT set for slightly cooler.	
									1/2		0 0 256 1024 4 1 CCDFMT	
4									3			
4/4	200	5"	3.66	Fp					4	KK pgm	BC Br	3k
4									3			
3/3	200		"	"					5	"		
4									3			
3/2	140	"	"	"					4	"		
4									3			
—									1			
4									3			
3/7	11	3-4"	7.50	KO					4	KK Vis Bin	dbl lines 2 nights ago and tonight south and brighter one	
4									3			
7/10	0	3"	8.20	?					5	"	N and further.	350 above 0/q
4									3			

pg # 2

Date 1995 Sept. 13/14 Observers [KK]/Tn/Smt

Emulsion Batches: .....

.....

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Min
cc09848	ADS14270A	20 41 36	+15 32	21 51 01		0 47 W			1727	2
49	COMP						ThAr	[redacted]	4	
50	BIAS (4)			22 21					—	
51	COMP							ThAr	45	
52	HD197964	20 42 01	+15 45 50	22 28 05		1 01 W			400	110
53	COMP							"	4	
54	HD197963	"	"	22 37 01		1 20 W			946	100
55	Comp							"	4	
56	HD197964	"	"	22 54 30		1 29 W			460	110
57	Comp							ThAr	4	
58	Comp							"	"	
59	HD201091 ADS14636A	21 02 24	+38 15 00	23 08 30		1 29 W			876	120
60	Comp							ThAr	4	
61	HD201092 ADS14636B	"	"	23 23 50		1 49½ W			1117	62
62	Comp							"	4	

Spectr.
Focus
Spectr.

Spectr. Temp. ..... Dome Temp./Hum. 19.9°C / 72.4% Transparency Conditions ... hazy, increasing cloud

Focus ..... .249 .....

Spectr. Temp. ..... Dome Temp./Hum. 19.3°C / 75% RH

d c 0 0 256 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	Prg. Mag.	Sp.	CC Pos. / ECHELLE	X Grating / Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
2	3"	7.50	K0	18.51	300 ℓ/mm .5540	60μ W 40μ H	6300 Å	4	Kk Vis Bin	Brighter & S not as strong (7 pairs sep of DBI Lines)	
								3			
								1			
								3			
110	3"	4.50	K1 III					2	Kk Vis Bin	Brighter Feature	3.6K
								3			
100	3+"	5.50	F7 V					4	"	Fainter and W	
								3			
110		4.50	K1 III					2	"		
								3			
								3			
120	3"	~~5.22~~	K5 V					4	Kk Vis Bin	Brighter and NORTH	3.8K
								3			
62	3"	6.04	K7 V					6	Kk Vis Bin	cloudy	2.4K
								3			

11 pg#3 Wed/Thurs

Date 1995 Sep 13/14 Observers [KK] Ta/Sunt

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce09863	HD201091 ADS14636A	21 02 24	+38 15 14	23 45 15		02 10 W			1082
64	Comp							ThAr	4s
65	BIAS(4)			0 05					
66-72	FLAT x 7					3 00 W		Tung	2s
73	Comp							ThAr	4s
74	HD222368	23 34 48	+50 50 3	01 18 13		1 05 W			786
75	Comp							"	4
76	BIAS(4)								
77	Comp							"	4
78	HD8890	1 22 34	+88 46 26	1 42 32		1 42 E			180
79	COMP							"	4
80	HD8890			1 46 55		1 37 E			176
81	COMP							"	4
82	HD8890			1 51 06		1 33 E			151
83	COMP								
84/85	INBOARD/OUTBOARD	HARTMANN						ThAr	4/4

Spectr. Temp. -100.0°C Dome Temp./Hum. 1/1932 75:26H Transparency Conditions ... Part. cloudy → mostly cloudy.

Focus ... 247

Spectr. Temp. ..... Dome Temp./Hum. ..... c [illegible]

Exp. Mtr.	Seeing	F Mag. ✓	Sp.	Inst. echelle	X Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
148	4"	5.22	K5V	18.51	300 l/mm .5540	60u W 400u H	G300A	4c	KK Vis Bin	Bright NW one	
								3			
								1/2		clouds rolling in	
						60u W 600u H		3		RAIN, dome closed.	14.8K → 14.9K
						60u W 400u H		3		cleared and closed up open again	
140	5"	4.13	F7V					4	Stilvel		3.5K
								3			
								1/2			
								3			
207	5"	2	F8Ib					2	KK pfm	very fast moving thick clouds.	4K
								3			
268		"	"					2	"		
								3			
155	5"	"	"					2	"	more cloud on this one cut short due to cloud.	
								3			
		0	0	128	1024	8	1	7/8	FOCUS TEST	closed again still right in focus	

29 #1

Emulsion Batches: .....

Date 1995 September 14/15 Observers [KK]/Tn./Smt ....

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Min
CE09886/87	Inboard Outboard					02 44 W	25°	ThAr	4/4	
88	BIAS(4)			22 16					—	
89	COMP							ThAr	4	
90	ADS14270A	20 41 36	+15 32	22 35 09		1 35 W			1705	1
91	COMP							"	4	
92	ADS14270B			23 05 10		2 07 W			1840	0
93	COMP							"	4	
94	ADS14270A			23 37 17		2 38 W			1738	0
95	COMP							"	4	
96	BIAS(4)									
97	Comp ADS15600A							"	4	
98	HD209791	22 00 54	+64 08 26	00 14 52		1 40 W			720	67
99	Comp							"	4	
CE09900	Comp	Extra Comp due to Time GAP						"	4	
01	ADS15600B HD209791			0 38 11		2 34 W			2513	66
02	COMP							"	4	

CCD
Spectr. Temp. = 100.2°C ..... Dome Temp./Hum. 13°C / 61.0% Transparency Conditions ... Clearing ... Fast .....
@ focus test
Focus ..... 739 .....
Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	~~Vis~~ Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	max Quality ADU
				18.51	300 l/mm .5540	60μ W 40μ H	6300 Å	1/2	FOCUS TEST	0 0 128 1024 8 1	
								1/2		0 0 256 1024 4 1	
								3			
1	5-7"	7.50	KO					4	kk Vis Bin	brighter and S poor separation of pair	2200 above bkg
								3			
0	5-6"	8.20	?					5	"	fainter and N just barely separable	>100 above bkg
								3			
0	4-6"	7.50	KO					4	"	brighter and S	
								3			
								1/2			
								3			
67	6-8"	4.80	AZm					2	kk Vis Bin	Some cloud near the end. check HD #s for this pair	1K
								3			
66	~7"	5.30	dF7					5	"	Fainter and W - was off slit for a while. probably some of A as well/ Seeing is quite bad.	
								3			

Spg #2

Date 1995 Sept 14/15 Observers [kk]/Tn/Smt

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Spectr. Focus. CCD Spectr. Exp. Min
CCD9903	ADS15600A HD209790	22 00 54	+64 08 26	1 22 54		2 47 W			630	120
04	COMP							ThAr	4	
05	BIAS(4)			1 40					—	
06	Comp							Th/Ar	4	
07	HD8890	01 22 34	+88 46 26	1 43 15		1 34 E			232	400
08	Comp							"	4	
09	HD8890			1 49 12		1 27 E			270	420
10	COMP							"	4	
11	HD8890			1 55 48		1 21 E			239	425
12	COMP							"	4	
13	COMP							"	"	
14	HD3712	0 34 50	+55 59 20	2 06 10		0 47 W			196	322
15	COMP							"	4	
16	HD3712	"	"	2 10 46		0 52 W			211	370
17	COMP							"	"	

Spectr. Temp. ..... Dome Temp./Hum. 8.5°C/71.6% Transparency Conditions partly cloudy .....

Focus ..... .239 .....

Spectr. Temp. ..... Dome Temp./Hum. ..... d i 0 0 256 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	P.E. Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	Emulsion	RH.	Program	Remarks	Quality
120	6"	4.80	A3m	18.51	300 l/mm .5540	60μm W 400μm H	6300 Å	2	kk V:s Bin		
								3			
								1			
								3			
400		2	F8 Ib					4	kk pgm		8.0K
								3			
420		"	"					4	"		
								3			
425	5"	"	"					4	"		6.2K
								3			
								3			
322	5"	223	K0 III a					5	Std. Vel.	same sp. as ~~dbl~~ line star	5K
								3			
370	5"	"	"					5	"		
								3			

MG # 3

Date 1995 Sept. 14/15 Observers [kk]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce09918	COMP							ThAr	4
19	HD6582	1 01 37	+54 25 47	2 20 09		00 44 W			889
20	COMP							ThAr	4
21	HD6582	"	"	2 37 14		0 01W			870
22	Comp							ThAr	4
23	BIAS(4)			2 53					
24	Comp							"	"
25	HD6961	01 0501	+54 3705	02 57 33		01 17 W			745
26	Comp							"	4s
27	HD6961	"	"	03 11 23		01 29 W			628
28	Comp							"	4s
29	Comp							"	"
30	*HD ~~10780~~	01 4031	63 2132	03 26 24		01 16 W			1159
31	Comp							"	4
32	HD10780	01 4031	63 2132	03 48 40		01 36 W			1047
33	Comp							"	"

CCD
Spectr. Temp. −100.7°C Dome Temp./Hum. 7.9°C / 70.2% Transparency Conditions . clear 18

Focus .239

Spectr. Temp. Dome Temp./Hum. 7.1°C / 70.2%

0 0 256 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	Ptg Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				18.51	300 ℓ/mm .5540	60μ W 400μ H	6300 Å	3			mAx
100	5"	5.2?	G5V					6	kk Asm/Sp	bright and nearby cosmic rays ~ Hα	1.3K
								3			
100		4	"					6	"		
								3			
								1/2			
								3			
200	5-7"	4.33	A7V					2	kk Asm Sp		2.5K
								3			
180	4-5"	4	"					2	"	~~Asm~~	
								3			
		~7	Late	broad lines (dbl?)				3	★ (just SOUTH of HD 10780 30" SSE actually)		
0	5-7	~~5.63~~	~~K0V~~					4	~~kk Asm Sp~~	WRONG STAR, (doesn't look bright enough in guide view? (Finder view seems OK)	50 above b/grnd
								3			
95	5"	5.63	K0V					5	kk Asm Sp	The correct star	1.1K
								3			

Pg #4

Emulsion Batches: .....

Date 1995 Sept 14/15 Observers [illegible] Tim / Scott .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
CE09934	BIAS (4)			04 09					
35	Comp							ThAr	45
36	HD222368	23 34 48	+5 05 03	04 15 16		4 12 W			1004
37	Comp							ThAr	4
38	Comp							"	"
39	Moon-Mösting crater	4 18 30 (1995.7)	+7 17 39	04 40 15		0 17 W			
40	Comp							"	"
41	COMP							"	"
~~42~~	HD 62509	7 39 12	+28 16 04	04 53 43		3 31 E			
43	Comp							"	"
44	Comp							"	"
45	HD34029	5 09 18	+45 53 47	~~05~~ 5 04 39		0 53 E			39
46	COMP								
47/65	FLATS x 9					W		TUNG	2
56/57	Inboard / outboard					"	"	ThAr	4/4
58	BIAS (4)								

CCD Spectr. Temp. -100.5°C Dome Temp./Hum. 7.0°C 71.6% Transparency Conditions . Fair 20

Focus . . . 2389

CCD Spectr. Temp. -100.7°C Dome Temp./Hum. 6.5°C 72.4% chumbly

1.7 Ax

Exp. Mtr	Seeing	Pwr. Mag	Sp.	Inst. echelle	Grating/ X Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				1851	300 l/mm .5540	60u W 100u H	6300	1/2			
								3			
7	6"	413	F7V					2	std bel	Abt for west.	2.8K
								3			
								3			
355	N/A	?	reflected G2V					6	std bel	or Sp. Std.	6.8K
								3			
								3			
525		1.14	K0 IIIb					6	std bel		15.1K
								3			
								3			
490		1.08	G5 IIIc + G0 II					4	KK	Capella	10K
								3			
						600u H		5			15.6
						400u H		7/8	focus test	Now set for slightly too warm.	
								1/2			

Pg #1 Fri / SAT

Date 1995 Sep 15/16 Observers V.n K. I.T.G.

Emulsion Batches: .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC 3547 93/94	Inboard / Out Board					0°	+43°	Fat clear	60/60
95	Comp					~~0 29E~~			60
96	HD177724	19 00 49	+13 42 53	19 14 28		0 29E			58
97	Comp							Fat clear	60
98	BIAS (4)								
99	Comp							"	60
CC 35500	CV Cyg	19 54 21 2000	+38 02 47	20 03 55		00 02W			1900
01	Comp							"	60
02	Comp							"	60
03	HD229680	18 45 54	+15 49	20 46 05		01 57W			2449
04	Comp							"	60
05	BIAS (4)								
06	Comp							"	60
07	HD187691	19 46 14	+10 09 55	21 35 22		W			225
08	Comp							"	60

Spectr. Temp. CCD −101.7°C ..... Dome Temp./Hum. +17.0°C 57.5%H Transparency Conditions ..thin..cloud..but fine.....

Focus ... 6.76 .....

Spectr. Temp. ..... Dome Temp./Hum. +8.9°C 68.5%H 90 Cguin

Cloudy 4 20 0 50 1024 4 1 CCDFOTT

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Actually 06560		Filter	Mighty	CMSS CCD	1800 l/mm G-6100 X	306u	6603A	3/4	focus Test	Set V sl for cooler	MAX ADU
But actually		no Filter	for the program					5		GT presumed same as kd Cuss observing	
5000	3"	2.99	AOV					6	Telluric Std		10K
								7			
								1/2			
								8			
250	2" or better	5.11 10.0	F8 (Hunt)					9	Vnk	< 70/1 S/N	
								10			
								11			
330	2"-3"	10-2 -11-2						12	Cepheid Vnk	Af Her (S/N 70/1)	
								13			
								1/2			
								14			
3500		5.11	F8V					15	Std vel		6.6K
								16			

N pg#2 Fri / Sat

Emulsion Batches:

Date 1995 Sep 15/16 Observers V.K. / J.n

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC35509	Comp							FeAr clear	60s
10	HD356404	19 5248	+10 46	21 4818		01 42W			1800
11	Comp							FeAr clear	60s
12	Comp							"	"
13	V572 Aql	19 5727	00 25	22 2926		02 28W			2417
14	Comp							"	60s
15	BIAS(4)								
16	Comp							"	60s
17	V383 Cyg	20 2503	+33 48	23 2818		02 52W			1839
18	Comp							"	60s
19	Comp							"	"
20	HD222368	23 3448	+50 503	00 1150		00 03E			194
21	Comp							"	"
22/27	FLATS x6					00 06W	-5°	Tung Ap 1/4	8s
28	BIAS(4)								

CCD Specif. Temp. −101.6°C ..... Dome Temp./Hum. ..... Transparency Conditions .... Fine ..... 24 ....

Focus ... 6.76 .....

CCD Specif. Temp. −101.6°C ..... Dome Temp./Hum. +8.3°C 72.4% ..... Clouding

→ increasing haze
→ increasing cloud

Exp. Mtr	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
~~No filter~~ OG 560				CCD	1800 l/mm G=6100	306u	6603	17			
360	3.7"	9.7 −10.2						18	Cepheid Unk	L 100/1 S/N	
								19			
								20			
200	3.5"	11.0 −11.4						21	Cepheid Unk	L 60/1 S/N	
								22			
								1/2		T = −100.6°C	
								23			
300	<3"	10.6 −11.2						24	Cepheid Unk		
								25			
								26			
1500		4.13	F7					27	Stel Vel	Jaudoy	
								28			
								2			14K
								1/2			

P93 - continual after cloud stretch Fri/Sat

Date ..1995.. Sept 15/16 Observers ..Vak/Tm.....

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Min
CC35529	Comp							Fetr clear	60s	
30	BD+17 4572	21 19 21	+17 51	01 24 52		3 45W			1420	250
31	Comp							"	60s	
32	BIAS (4)									
CG801 29/32	HD 6413	00 58 59	+39 27 18	~ 22				4x	67ms	
CG801 33/34	"					2 00 20W		20	133ms	
CC355 33/34	Inboard/outboard		Hurtmatn			0 30W	+25°	FoA clear	60/60	

Spectr. Temp. ..... Dome Temp./Hum. 18.6°C 71% H Transparency Conditions .. Part. Cloudy 24

Focus ... 6.76 .....

Spectr. Temp. ..... Dome Temp./Hum. 18.7°C 76% H Then completely SO.

Exp. Mtr.	Seeing	Pwr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASSEG	1800 l/mm G-6100	306u	6603A	5			
250	3"	8.9 -9.5						6	Cepheid	(High PRIORITY) Part cloudy	
								7			
	3"	657	FO Vis		Above 306u	Slit			Seeing test	mostly cloudy	
T=8.7	Set 6.76							39/301	focus test		
			All to DAT c Perseus								

Xpg#1 Sun/Mon

Date 1995 Sep 17/18 Observers Vnk/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc355 35/36	Inboard/outBoard	Hartmann				00 15E	+41°	Fear clear	60/60
37	BIAS(4)								
38	Comp							Fear clear	60
39	HD177424	19 00 49	+13 42 53	19 1504		00 21 E			35
40	Comp							"	60
41	Comp							"	60
42	HD162714	17 47 17	−06 07 09	19 26 26		01 09 W			400
43	Comp							"	60
44	Comp							"	60
45	HD229680	18 45 54	+15 49 00	19 43 27		00 55W			2020
46	Comp							"	60
47	BIAS(4)			20 20					
48	Comp							"	60
49	HD354511	19 56 35	+15 31 00	20 30 37		00 18W			1200
50	Comp							"	60

CCD Spectr. Temp. −100°C ..... Dome Temp./Hum. +14.3°C 66%H Transparency Conditions Clearing Fast 28

Focus 6.76 ..... 90 cgain

CCD Spectr. Temp. −100.4°C ..... Dome Temp./Hum. ..... 420 0 50 1024 4 1 ccdfast MAX

Exp. Mtr.	Seeing	Filt. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				C455 CCD	1800 g/mm G: 6100	306	6603A	3/9	focus		
								1/2			
								5			
6000		2.99	A0 V m					6	Telluric STD	AIRMASS = 1.16	4K
								7			
								8			
4600	4-5"	6.18	F8 I ab					9	Rm Cepheid		6K
								10			
								11			
372	5"	10.2 −11.2	A:					12	Cepheid V+K	AP Her	
								13			
								12.			
								14			
440		9.8 −10.6						15	Cepheid V+K		
								16			

pg #2 Sun/mon

Date ..1995 Sept 7/8.. Observers ..V.K. J.T.....

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC35551	Comp							Fair clear	60s
52	HD187691	19 46 14	+10 09 55	21 01 19		00 43 W			249
53	Comp							"	60
54	BIAS(4)								
55	Comp							"	60
56	BD+17 4572	21 19 21	+17 51 00	21 ~~14~~ 34		00 13 E			1601
57	Comp							"	60
58	Comp							"	60
59	V383 Cyg	20 25 03	+23 48	21 51 21		01 ~~2~~7 W			2000
60	Comp							"	60
61	BIAS(4)								
62	Comp							"	60
63	BD Cas	00 04 39	+60 57 00	22, 40 09		E			2407
64	Comp							"	60
65	BIAS(4)								

Spectr. Temp. ..... Dome Temp./Hum. +12.0°C 67.7% Transparency Conditions .. PART. Cloudy 80

Focus ..... 6076 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

ADU MAX

Exp. Mtr.	Seeing	Pix Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASSCCD	1800 l/mm G-6100	300u	6603Å	17			
5,500	poor	5.11	F8V					18	Std Vel		
								19			
								1/2			
								20			
1100	4-6"	8.9 -9.5						21	Cepheid V+K	120/1 S/N	
								22			
								23			
460		10.6 -11.2						24	Cepheid V+K	75/1 S/N	660
								25			
								1/2			
								26			3.2K
455	4-5"	10.8 -11.2						27	Cepheid V+K	Δ RA +00 00 11 Δ S −00 00 15 S/N 75/1	
								28			

(4) pg #3 Sun/Mon

Date 1995 Sep 17/18 Observers V.n K. / T.t

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc3556	Comp							FeAr clear	60s
67	IX Cas	23 59 42	+49 41	23 35 01		00 20 E			2400
68	Comp							"	60
69	BIAS(4)								
70	Comp							"	60
71	DQ And	00 53 54	+44 52	00 25 22		00 24 E			2400
72	Comp							"	60
73	BIAS(4)								
~~74~~	~~Comp~~		1995.7 Actual					FeAr	60s
~~75~~ 75	Nova Cas 95	01 04 55	+53 59	01 27 16					
76	Comp							FeAr	60s
77	Comp							"	60
78	HDE 235679	21 55 00	+54 00 00	01 54 02		W			900
79	Comp							FeAr	60
80	~~Comp~~ BIAS(4)			02 15				"	~~60~~
81	Comp							FeAr	60s

Spectr. Temp. ..... Dome Temp./Hum. 7.9.5c ... 70% RH Transparency Conditions .. Fair 32

Focus ... 6.76 .....

Spectr. Temp. ..... Dome Temp./Hum. ..... clear sky

Exp. Mtr.	Seeing	Inc. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASS CCD	158 l/mm G-6100	306 u	6603 Å	5			
250	3.5"	11.2 -11.8						6	Cepheid V+K	> 50/1 S/N	
								7			
								1/2			
								8			
220	3.4"	11.2 -12.0						9	Cepheid V+I		
								10			
								10			
	5"							12			7.2K
								13			
								14			
790		8.86	B2.5 Ia					15	B/n program (Sp bin)	Air mass ≈ 1.18	8.2K
								16			
								1/2			
Had stange Sp control problem. Hartmann mask may have been in 'Comp' posn.								17		(should be 3.2K max)*	2K

33 pg #4 Sun/Mon

Date 1995 Sept 17/18 Observers V.K./T.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 35582	BM Cas	00 48 36	+63 33	02 26 59		01 18 W			
83	Comp							Fe/r clear	60s
84	Comp							"	"
85	M31 Right on central core	00 42 42 (2000)	+41 16 00	03 05 24		02 20 W			1648 ~~335~~
86	Comp							"	60
87	BIAS(4)								
88/93	FLATS x 6					02 28 W	+41 14	Tung Apl/4 Fe/r clear	85
94	Comp								60
95	HD 222368	23 34 48	+50503	03 49 58		W			
96	Comp							"	60
97	Comp							"	60
98	HD 21291	22 10 32	+42728	03 59 10		05 19 W			258
99	Comp							"	60
cc 35600	Comp							"	60
01	HD 29587	04 34 30	+41 57	04 15 17		00 45 E			
02	Comp							"	60

Spectr. Temp. ..... Dome Temp./Hum. 180°C 71% Transparency Conditions ... Fine ..... 34 .....

Focus .... 6.76 .....

Spectr. Temp. ..... Dome Temp./Hum. 165°C 763% H

Climbing

Exp. Mtr.	Seeing	Filter Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
No filter 850	6"	8.8 -9.33		CH55CCD	1800A/mm G=6100	306u	6603A	18	Mk proj	Symetrical Hα Em	3K
								19			3.6K
								20		ΔRA=0000005 Δ Dec=0000.12 Small Stellar like.	
≈90		13*						21	Gal & Stuff	Core easily seen.	
								22			
								1/2			
								2			13K
								23			
		9.13	F7V					24	stdvel		
								25			
								26			
3700		5.68	A2V					27	Telluric Std.	1.73 Air mass	
								28			
								5			
		729	dG2					6	stdvel		
								7			

MP95 Sun/Moon

Date 1995 Sept 17/18 Observers Vuk / Tom

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CG801 35/38	HD29587	04 3430			=00 30 E			4 x	67½
CG801 39/46	"							2 x	133½
CC35603	Comp							Feat Clear	60s
04	HD14386	021418	-032554	044728					12½
05	HD14386	"	"			205W		~~4~~ Feat Clear	255 ~~60~~
06	Comp								60
07	Comp							"	60
08	HD29484	03 3146	000504	050418		039 W			92
09	Comp							"	60
10	Comp							"	60
11	HD188884	03 4151	034151	052225		0141 W			38
12	Comp							"	60
13	BIAS(4)								
14/15	Inboard / outboard					0 0	+25	"	60/60

Spectr. Temp. ..... Dome Temp./Hum. +6.3°C 78%H Transparency Conditions . Fixe ..... 36 ....

Focus .... 6.76 .....

Spectr. Temp. CCD −98.5°C X Dome Temp./Hum. +5.8°C 79%H MAX

Exp Mtr	Seeing	F/ Mag	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
		7.29	dG2	CASSCCD	Above	30μ	slit		seeing test		
	(I think M it locked 5th)				1200 l/mm G=6100		6603?	7			thk
2700		~~5~~ M						9	Rg in transit 0 cet mirH		5k
5700		next night, mag peggd @ 8th Rel to fld stars Tm						9			6.2k
								10			
								11			
4200		~~1.28~~ F9 III-V ~~2.53 M1.5 IIIa~~						12	std vel		5.3
								13			
								14			
10,500		2.53 M1.5 IIIa						15	std vel		14k
								16			
								1/2			
								3/4	focus test		
*	CCD T @ 05 45 = −95.0°C										

Night #1 Mon / Tues

Date 1995 Sep 18/19 Observers V.N.K. / I.T.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC356 16/17	Inboard / Outboard					00 00	+42°	Feth Clear	60/60
18	BIAS(4)								
19	Comp							Feth Clear	60
20	HD177724	19 0049	+13 4253	19 0807		00 25E			33
21	Comp							"	60
22	Comp							"	60
23	HD204867	21 2618	−06 0040	19 1657		02 41E			45
24	Comp							"	60
25	"							"	60
26	HD212943	22 2248	+4 1139	19 2806		03 24E			135
27	Comp							"	60
28	Comp							"	60
29	BD+17 4572	21 1921	+17 51	19 3852		01 48 E			1500
30	Comp							"	60
31	BIAS (4)			20 09					

CCD Spectr. Temp. −100.6°C Dome Temp./Hum. +13.8°C 56% Transparency Conditions Fine

Focus 6.76 unchanged 90 c gain

Spectr. Temp. Dome Temp./Hum. +12.5°C 61.4% 470 0 50 1024 4 1 CCDPUTT MAX HOLD

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no S.Hdr				CHSSCCD	1800bl/mm G=6100	30u	6603Å	3/4	focus	Set for slightly cooler	
								1/2			
								5			3.5k
8000		2.99	AOE					6	Telluric Std.	1.16 Air mass	6.5k
								7			
								8			
8,700		2.91	GOTO					9	Std Vel		14k
								10			
								11			
6,400		4.79	KO III-IV					12	std vel		13.8
								13			
								14			
1370	2"	8.9 - 9.5						15	Cepheid	Vpk 1.26 Air mass	
								16			
								1/2			

Pg #2 Mon / Tues

Date 1995 Sep 18/19 Observers V+K / I+O

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc3563 2	Comp							Fe Comp clear	60s
33	HD 197433 comp	20 38 36	+75 14	20 22 59		00 33 E		Fe Ar clear	480s 60s
34 cc3563 5-38	HD 197433	"	"	20 38 59	21 12 approx	00 09 W		4x	480
cc3563 9	Comp							Fe Ar clear	60
40	BIAS (4) ~~HD 197433~~	~~20 38 36~~	~~+75 14~~	21 15 54					
cc356 41/44	HD 197433	20 38 36	+75 14	21 17 12	21 50	W		4x	480
45	Comp							Fe Ar clear	60
cc356 46/49	HD 197433	"	"	21 55 01	21 30			4x	480
50	Comp							"	60
51	BIAS (4)								
cc356 52/55	HD 197433	"	"	22 34 01	23 07	02 03 W		4Y	480
56	Comp								60
57/60	HD 197433	"	"	23 10 49				4Y	480
61	Comp							Fe Ar clear	60s
62	BIAS (4)								

Spectr. Temp. ..... Dome Temp./Hum. +12.1°C 62%24 Transparency Conditions ... Fine 40

Focus ... 6.76 ..... increasing cloud

Spectr. Temp. ..... Dome Temp./Hum. ..... clouding

Exp. Mtr.	Seeing	IV Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
no film				CASS CCD	1800 l/mm G-6100	306	6603A	17		Telescope Eastside now	
2,120	2"3"	7.5 -7.9	KOV var					18		2170/1 S/N	
2,570		K	4					19 20	Contact Bin	ppm using [Repeat vwcg 4]	
								21			
								1/2			
9,250	2"3"	7.5 -7.9	KOV var					22	Contact Bin	[Repeat vwcg,bat 4]	
								23			
*N/A	2"	1	4					24	"	(* spectr control failed) Repeat vwcg,bat 4	
								25			
1500 1600 1600 1700	<2"	1	1					26	"	Repeat of 4	
								27			
								28			
								29			
								1/2			

41 pg#3

Emulsion Batches: .....

Date 1995 Sep 18/19 Observers Nat/Tim .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 356 63/66	HD197433	20 38 36	+75 14	00 15 28		03 20 W		4 x	480
cc356 67/70	~~HD197433~~	"	"	~~00 50 28~~	00 59	03 55 W	4x480s	~~Fear Clear~~	~~60s~~
71	Comp							Fear Clear	60
72	BIAS(4)								
73/76	HD197433	"	"	01 03 11		W		4 x	480
77/80	"	"	"	01 37 23		05 07 W		4x480	60s
cc35681	Comp							Fear Clear	60s
86	BIAS(4)	written after	cc35685	02 13					
82/85	HD197433	"	"	02 44 48		W		4x	480
87/90	"			02 51 07		06 21 W		4x	480
91	Comp								
92	BIAS(4)			03 27					
93/700	FLATS x 8					03 00 W	+75 35	Tung Ap/4	8s
cc35701	Comp							Fear Clear	60
02	IX Cas	23 59 42	+79 41	03 42 24		03 44 W			1947

CCD
Spectr. Temp. −101.9 °C @ 2.25 Dome Temp./Hum. 111.1°C 66%H Transparency Conditions Fine slight haze

Focus 676 42

Spectr. Temp. ..... Dome Temp./Hum. ..... 22 Lda

Exp. Mtr.	Seeing	Pix. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no Filter		7.5	KOV	CASSCCD	1800 l/m	306					
2700	3"	-7.9	Var		G-6100		6603A	6	Continuum	near max light	
2000											
1849								6		Repeat of 4 again	
1440											
0000								7			3.5K
								1/2			
	2"	"	"					8	"	Repeat 4	
Typical											
1820	<2"	"	"					9	"	" "	
								10			3.5K
								1/2			
2000											
0000	2"	"	"					11	"	Repeat of 4	
2300										Δ RA −00 00 44	
	2"	"	"					12		Δ Dec −00 00 18	
								13			
								1/2			
								2	Tel	Still East side	14K
								14	"	" "	
		1.12									5/K
240	2"	-1.18						15	Cepheid Vink	Δ RA −00 00 33 −00 00 51	60/1

43 pg#4

Date 1995 Sep 18/19 Observers Vnk/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	
CC35703	Comp for IX Cas							Fe Ar clear	60s	
04	Comp							"	60	
05	BD Cas	00 04 39	+60 57	04 23 40		4 18 W			1832	360
06	Comp							"	60	
07	BIAS (4)									
	~~HD29587~~									
CG 801 41/44	HD29587	04 34 30	+41 57					4v	67m	
CG 801 45/46	"					0 0		2v	133m	
CC35708	Comp							Fe Ar clear	60	
09	HD29587	043430	+15700	05 12 26		00 12 W	exp secs	~~Fe Ar clear~~	~~60~~	227
10	Comp									
11/12	Inboard / outboard Hartmann					00 13 W	42°	Fe Ar clear	60/60	

Spectr. Temp. ..... Dome Temp./Hum. 19.9°C 69%H Transparency Conditions Fine .....

Focus ... 6.76 .....

~~Spectr~~ CCD Temp. −100.9°C .... Dome Temp./Hum. 19.4°C 72%H

44

Exp. Mtr.	Seeing	Mt. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				CCD	1500 l/mm	306μ	6603A	16			
								17			
360	<2"	10.8 −11.2						18	Cepheid V+K		
								19			
								1/2			
										Telescope westside now	
	3"	7.2	dG2		Fibre 306μ	Slit			Seeing test	No Wind.	
									" "		
								19			
2270	2.3"	7.4	dG2					20	Std vel		3.2K
9.4°C								3/4	focus test		

(spg #1 Fri/SAT

Date 1995 September 22/23 Observers [Bln]/Tn./Sm.t

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc35713/14	Inboard/outboard Hartmann							FeAr clear	40/70
15	BIAS(4)			19 10					—
16	COMP							"	60
17	HD172187	18 33 42	+43 08 12	19 13 31		00 44 W			1157
18	COMP							"	60
19	COMP							"	"
20	HD138629	15 28 12	+41 14 19	19 40 39		4 12 W			900
21	COMP							"	60
22	BIAS(4)			19 59					—
23	Comp							"	60s
24	HD148283	16 21 50	+37 37 18	20 04 03		3 55 W			1680
25	Comp							"	60s
26	Comp							"	60s
27	HD152614	16 49 17	+10 19 48	20 39 04		3 44 W			631
28	Comp								60

CCD
Spectr. Temp. −100 °C Dome Temp./Hum. 9.5°C / 62.4% Transparency Conditions . mostly clear. now..... 46..
@ focus test
Focus ..... 6.80 FANS ON
Spectr. Temp. ..... Dome Temp./Hum. .....
430 0 50 1024 4 1 ccdfast

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				CASS CCD	1800 ℓ/mm G=4585	306μm	4466 Å	3/4	Focus test	in focus now.	
								1			
								5		(< 200/1 S/N)	
no filter, conds. 10.1K	5·6"	B 6.40	FOV					6	Bln SB	norm'd on it, 35" W centred on col 21 - move a bit	2K
								7			1.3K
BG 39 FILTER								8		(250/1 S/N)	
12.1K	5"	B 5.09	AS V		S/N ~ 280:1			9	Bln Ashell #	centred on col 22. Must move off centre of slit.	4.0K
								10			
								1		−101.6 C ccd Temp	
								11			1.5K
14, 300	5-7"	V 5.52	AS V					12	Bln Ashell #	approx 300/1 S/N	
								13			
								14			
14.3K	6"	B 4.30	BS V					15	SB Bln	dbl line?	5.2K
								16			

4 pg # 2 Fri/Sat

Date 1995 September 22/23 Observers [Blank] / Tom / Sam

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc35729	COMP							Feder clear	60
30	HD158352	17 23 44	+ 0 24 42	20 56 47		3 42 W			1500
31	COMP							"	60
32	BIAS(4)			21 24					—
33	COMP							Feder clear	60
34	HD164577	17 56 41	+ 1 18 27	21 29 15		3 28 W		~~Feder~~ ~~Clear~~	730 ~~60~~
35	Comp							"	60
36	Comp							"	60
37	HD164852	17 58 07	+20 50 00	21 48 58		3 53 W			1069
38	Comp							"	60
39	Comp							"	60
40	HD180316	19 11.0	+27 46 00	22 13 26		3 28 W			2439
41	Comp							"	60
CG80A 1/150	HD214946	22 36 42	+44 29					4x	67ms
CG80 151/152	"					0 10 W		2x	133ms
cc35747	BIAS (4)			23 05					

CCD
Spectr. Temp. -100.1°C ..... Dome Temp./Hum. 7.3°C/63.0% Transparency Conditions clear, some cloud to NW (48)

Focus 6.80 .....

Spectr. Temp. -100.4°C ..... Dome Temp./Hum. 6.1°C 69.5% FANS ON, only NE one now

430 0 50 1024 4 1 cr dkt

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
BG39 Filter				CASS CCD	1800 l/m	306μ	4466Å	17			
10.2K	5'6"	B 5.66	A8 V					18	Bln A-stellar		3.3K
								19			
								1			
								20			
14.2K	6"	B 4.46	A1 V					21	Bln SB	dbl lined? not dbl tonight	8.
								22			
								23			
14 K	6"	B 6.19	B3 IV					24	SB Bln		4.4K
								25			
								26			
6,500	4-8"	B 6.69	B8					27	SB Bln	some cloud at end	2.3K
								28			
	focus	B 7.26	A5	Above	306μ	slit			Seeing test	Medium West Wind Some cloud	
									" "	1	
								10			

49 pg#3 Fri/Sat

Date 1995 Sep 22/23 Observers [Bln]/Tol/Sant

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc35743	Comp							FeAr Clear	60s
44	HD214946	22 36 42	+44 29 00	23 08 34		01 00 W			2630
45	Comp							FeAr Clear	60s
46	BIAS(4)			0 03					—
47	COMP							"	60
48	HD192518	20 10 08	+28 23 30	0 07 00		4 07 W			1515
49	COMP							"	60
50	COMP							"	"
51	HD210459	22 05 33	+32 41 15	0 39 57		2 28 W			550
52	COMP							"	60
53	BIAS(4)			0 53					—
54	Comp							"	60s
55	HD154528	17 00 54	+77 48	1 02 02		8 39W			2586
56	Comp							"	60s
57	BIAS(4)								

Spectr. Temp. ..... Dome Temp./Hum. 6.0°C/70.7% Transparency Conditions ..Mostly clear..... SD.

Focus ..... 6.80 .....

Spectr. Temp. ..... Dome Temp./Hum. 5.6°C ..... 76.5% H

c30 0 50 1024 4 1 rcdG MAX 4004

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG39 F.HeR				CMSS CCD	1800 l/mm G~ 4585	306u	4416Å	29c			1.3K
5900	6'	B 7.76	A5					6	SB Bln	centred on cols 28-29. Some cloud	2.0K
								7		re-centred dec target arm on the screw.	
								1			
								8			
16.4	6'	B 5.36	A7IIIn					9	Bln A-shell*	on col 25	6.0K
								10			
								11			
16.5	6'	B 4.75	F5III					12	Bln A-shell*	on col 27 again	7.0K
								13			
								1			
								14	Bln, SB ↓	Telescope East Side	
7500	6'-7'	V 6.66	A0					15			3.5K
								16			
								1			

Pg #4

Fri / Sat

Date 1995 Sep 22/23. Observers [illegible] / Tom / Sam

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparisor Type/Filter	Comparisor E.
CC 3756	Comp							Fe Ar clear	60
59	HD 3712	00 34 50	+55 59 20	01 56 03		01 07 W			146
60	Comp							"	60
61 – 80	FLAT x 20					01 11 W	+56 31	TUNG clear	22
81	BIAS (4)			2 26					
82/83	INBOARD / OUTBOARD					"	"	Fe Ar clear	40/70
84/85	Inboard / Outboard							FeNe clear	70/20
86	BIAS (4)			4 3 00					—
87	COMP							"	10
88	HD 14633	2 16 42	+41 02	3 00 45		01 04 W			2200
89	COMP							"	10
90	Comp							"	10
91	HD 15137			03 43 46		01 51 W			2754
92	COMP							"	10
93	BIAS (4)			4 31					—

Spectr. Temp. ..... Dome Temp./Hum. 15.9°C 75%H Transparency Conditions .. O.K. 52

Focus .... 6.80 / 6.72 @ G=4585 / @ G=2679

Spectr. Temp. ..... Dome Temp./Hum. ..... 2 Zimbdn 430 0 50 1024 4 1 ccdfast

Exp Mtr	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
BG 39 Filter				CASS CCD	1800 l/mm G=4585	3.0sec	4466Å	17			
22K	6"	V 2.23	K0 III a					18	Std Vel	trailed a bit	7.8K
								19			
								2			14.7K → 13.5K
								1			
								3/4	Focus TEST	end of pgm T = 5.7°C	
SHIFT BG 39 Filter				CASSCCD	600 b/mm G=2679	3.0sec	~~4298~~Å 4298Å	3/4	focus test	475 0 50 1024 4 1 CCD Fast in focus	
								1			
								5			
4100	5"	B 7.26	O N8 V					6	Blu O-star	S/N ~ 360:1	7.5K
								7			
								8			
3000	5"	B 7.72	O9.5 II - III (n)					9	Blu O*	S/N ~ 260/1	
								10			
								1			

Pg #5 Fri/Sat

Date 1996 Sep 27/28 Observers [B]m/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC35794	Comp							FeNe Clear	10s
95	HD 34656	05 14	+3720	04 35 27		0 34 E			1292
96	Comp							"	10s
97	COMP							"	10
98	HD22484	3 31 46	+0 05 04	5 04 53		1 22W			247
99	COMP							"	10
CC35800	Comp							"	10
01	HD37022C	5 30 22	-5 27 20	5 14 34		0 24 E			406
02	COMP							"	10
03	BIAS(4)			5 31					—
04-13	FLAT x10					0 0	+30°	Tung Clear	6
14/15	Inboard/Outboard	Hartmann		5 42				FeNe Clear	20/40

CCD

Spectr. Temp. -100°C Dome Temp./Hum. 1.5°C 80.3%H Transparency Conditions. Fine Sq

Focus 6.92

Spectr. Temp. ..... Dome Temp./Hum. 1.50°C clouded 475 0 50 1024 4 1 MAX

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG 39				CASSCCD	600 l/mm G=2679	25u	4Z 7811	11			
3480	6"	B 6.21	C7II f					12	Bln-0*		7.7K
								13			
								14			
4870		✓ 4.28	F9IV-V					15	Std Vel.		
								16			
								17			
4500		B 5.15	O6ep (f)					18	Bln-0*	sky getting bright	7.7K
								19			
								1			
								1			15.9K →
	5.0°C	Set 6.92						3/4	focus test.	Set to focus =	

Spg#1 Sun/Mon

Date 1995 Sep 24/25 Observers [B.h] / I. n / ~~Matt~~ Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CG80 1536	HD176844	18 57 03	+40 32 36	≈ 19 SAT	Sep23 before Tour.			4x	67ms
CG80 157/159	"	"	"					20	133ms
cc 35 8 16/17	Inboard/out board	Hartmann		Sept 24/25		0 0	+40°	FeNe Clear	20/40
18	BIAS(4)								
19	Comp							FeNe Clear	30s
20	HD 172187	18 33 42	+43 08 12	18 54 edit header		00 25 W			720
21	Comp				Acer time and Date wrong Done			FeNe Clear	30s
clock reset 22	Comp								~~30s~~
23	HD187691	19 46 14	+10 09 55	19 14 49		00 37 E			150s
24	Comp							"	30s
25	Comp							"	30
26	HD 186601	19 47 54	+18 25	19 25 57		0 15 E			910
27	Comp							"	30
28	BIAS(4)			19 ~~39~~ 44					—
29	Comp							"	30

CCD Spectr. Temp. -100°C Dome Temp./Hum. 11.2°C 63%H Transparency Conditions Part Cloudy Sc

Focus 6.88

Spectr. Temp. Dome Temp./Hum. clamshell 90 again 475 0 50 1024 + 1 CCDs

Exp. Mtr	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG39 F.filter	OK	V 6.65	M	CASSCCD Hbeam	600l/mm 250u slit	25u slit	~~IIIa-J~~ 2415		Seeing test GG8157 bad Saturated. Note	
Tour Looked at Alberio and Saturn, then Really cloudy									Part Cloudy, No wind, Dome WSW	
+11.2°C		Set 6.88						3/4	focus test		
								1/2			
								5			2.7K
4500	4"	V 6.76	F0 V					6	Blk pgm (CuSo normalization star)		10K
								7	not usually done at this λ grating setup		
~~2000~~								8			
2100	4"	V 5.11	F8 V					9	Stilbol		5K
								10			
								11			
4200	3"-4"	B G24	075 I of					12	Blk 0* pgm > 300/1 S/N		11K
								13	> odd emission @ ≈ 4503Å narrow and 4484Å ±1.5Å		~~11K~~
								1			
								14			

Pg#2 Sun/Mon

Date 1995 Sep 24/25 Observers [Blu]/T.n./Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc35830	HD226868	19 57 36	34 56 00	19 51 14		00 41 W			3112
31	Comp							FeNe Cleud	30s
32	BIAS(4)								—
33	Comp							"	30
34	HD186980	19 42 24	+31 52	20 52 49		1 45 W			2509
35	COMP							"	30
36	COMP							"	30
37	HD193322 AB	20 14 34	+40 25 13	21 42 23		1 49 W			1733
38	COMP							"	30
39	BIAS(4)			22 15					
40	Comp							"	30
41	HD199579	20 53 03	+44 32 24	22 22 11		1 34 W			715
42	COMP							"	30
43	COMP							"	"
44	HD206267	21 35 51	+57 02 12	22 42 51		1 20 W			1150
45	COMP							"	30

Spectr. Temp. −101.2°C ..... Dome Temp./Hum. +9.9°C 68% 11 Transparency Conditions .. PART Cloudy ..... 58 ...

Focus ... 6.88 .....

Spectr. Temp. ..... Dome Temp./Hum. ..... cloudy 475 0 50 1024 4 1 ccdfast

Exp. Min. FILTER	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
900	3¾"	B 9.74	09.7 I	I-b	CRAB CCD 600 G 7679	25u	4298A	15	S.P. Bkgn + 0.9 Mon	Cyg X-1 >100/1 S/N	
								16			
								1		−100.4 & ccd Temp	
								18			
2160	4"-5"	B 7.53	07.5III((f))					19	Bkgn - 0*	some cloud here → increasing	4K
								20			
								21			
3760	4"-5"	B 5.94	09V:((n))		S/N > 300:1			22	Bkgn - 0*	FAINT companion to SW very close. Is this C? a B? PART Cloudy	7.5 ~~6K~~
								23			
								1/2			
								24			
4300	3"-4"	B 5.165	06V					25	Bkgn - 0*		10K
								26			
								27			
2060	3"-4"	B 5.83	06.5V					28	Bkgn - 0*	some cloud → increasing cut short due to cloud	4.7K
								29			

89 #3

Emulsion Batches: .....

Date 1995 Sep 24/25 Observers [Blitz] Tu/Smit ....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc35846 →cc35865	FLAT x 20					0h 00m	+14		
66	BIAS (4)			01 22 06					
67/68	Inboard / Outboard			01 40		0 0	=30°	FeNe Clear	20/40
cc35869	Comparison [FeAr] to compare quality with FeNe.							FeAr Clear	60s

CCD
Spectr. Temp. -100°C Dome Temp./Hum. 8.7°C/75% @ end. Transparency Conditions ... Cloudy - thin closed 50

Focus ... 6.88

Spectr. Temp. ... Dome Temp./Hum. ...

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
					600 l/mm G=2679	350μ	4248Å	30			10.0K → 14.6K
								1/2			
	18.2°C	Set 6.88						3/4	focus test		
								2		10.4K	1.8K

8 pg #1 Mon / Tues

Date 18.95 Sept 25/26 Observers Vnk / Jm

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 3570/71	Inboard / outboard					0 0	+40°	Feather Clear	60/60
72	BIAS(4)								
73	Comp							Feather Clear	60s
74	BD+17 4572	21 19 21	+17 51 00	21 03 26		00 01 W			1200
75	Comp							"	60s
76	Comp							"	60s
77	HD177724	19 00 49	+13 42 53	21 33 56		02 30 W			
78	Comp							"	60s
79	Comp							"	60
80	HD204867	21 26 18	-06 00 40	21 44 49		00 17 W			238
81	Comp							"	60s
82	BIAS(4)								
83/88	FLATS x 6					00 24 W	-5 36	Tung Ap 1/4	8s
89	BIAS(4)								

Spectr. CCD Temp. −100.3°C Dome Temp./Hum. 7.30°C 82%H Transparency Conditions PART. CLEARING

Focus 6.78

Spectr. CCD Temp. −100.7°C Dome Temp./Hum. +10.7°C 90% cloudy 90 again increasing fog & Humidity 6V

420 0 50 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Pk Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
10 filter				CASS CCD	1800 l/mm G=6100	30μ	6603Å	3/4	focus test		
								6			3.5K
570	3"	9.0						7	Copland Vuk	760/1 S/N Airmass 1.11	1.0K
								8			
								9			
10 K		2.99	40Å/m					10	Telluric Std	Airmass = 1.38	9.6K
								11			
								12			
7.5 K		2.91	60Å/m					13	Std Vel	Some cloud 1st 2 mins	11K
								14			
								1/2			
								15			13.5K
								1/2			

Tues/Wed

Date 1995 Sep 26/27 Observers V.K. I.T.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc3589 90/91	Inboard/outboard	[done at later time]		01 42		01 35 W	+67 29		60/60
92	BIAS(4)	[done after BD+17 4572]		01 3826					
93	Comp							FOAT CLEAR	60s
94	BD+17 4572	21 19 21	+17 51 00	01 0445		04 16 W			1825
95	Comp			01 36 51				"	60s
96	Comp							"	60s
97	BD Cas	00 04 39	+60 57	01 5214		02 25 W			2250
98	Comp							"	60s
99	BIAS(4)								
cc35900	Comp							"	60s
01	IX Cas	23 59 42	+49 41 00	02 42 15		03 16 W			2000
02	Comp							"	60s
03	BIAS(4)								
04	Comp							"	60s
05	DQ And	00 53 54	+44 52 00	03 25 38		03 12 W			2440
06	comp							"	60s

CCD
Spectr. Temp. −100.3 °C Dome Temp./Hum. +12.4°C 77.2% Transparency Conditions .. P.C.A.T. Cloudy 64

Focus ... G:73 90cgain

Spectr. Temp. ..... Dome Temp./Hum. ..... 4 20 0 50 1024 4 1 CCDFast

Exp. Mtr.	Seeing	TV Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter T= 11.6°C		Set 6.73		CASSCCD	1800 l/mm G=6100	306	6603	3/4	Focus	No Normalization on HDC811 nice Hd emm (as expected for B3V e)	MAX
								1/2			
								6			
900	~~3-4"~~	9.0						7	Vnk Cepheid	120/1 S/N	
								8			
								9			37K
350	2-3"	10.8 −11.2						10	Vnk Cepheid	70/1 S/N	
								11			
								1/2			
								12			
230	3-3"	11.2 −11.8						13	Vnk Cepheid	(s/l < 50/1 S/N)	
								14			
								1/2			
								15			
300	2-3"	11.2 −12.0						16	Vnk Cepheid	50/1 S/N	
								17			

PPM42 Tues/Wed

Date 1995 Sep 26/27 Observers Vak/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc35907	BIAS(4)			041037					
08	Comp							FeAr Clear	60s
09	SW Tau	042433 2000	+40724	041736		0029W			1800
10	Comp							"	60
CG801 60/63	HD29587	043430	+4157					4x	67ms
CG801 64/65	"	"	"		0458	0020W		2x	133ms
cc35911	~~BIAS~~ (4)								
12	Comp							FeAr Clear	60s
13	HD29587	"	"	050127		0033W			459
14	Comp							"	60

CCD Spectr. Temp. −100.5°C Dome Temp./Hum. +10.6°C 79.8% Transparency Conditions. getting quite clear 66

Focus 6.73

CCD Spectr. Temp. −100.6°C Dome Temp./Hum. +9.9°C 83% MAX

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASS CCD	1800 l/mm	306	6603A	1/2			
								18			37A
750	2"~~4~~	9.39	A7					19	Cepheid V&R		
								20			
		7.29	dG2		Hene 306 slit				Seeing test - NE Fan on all night		
									" " Some cloud.		
								~~22~~			
								21			
2360	2"3"	7.29	dG2					22	Std/Vel		
								23			

* Note, Flats forgotten, but previous and next night should be Reasonable, even though slit moved out and in and CCD temp reset each night.

* † Focus not changed for next night.

Night #1 Wed / Thurs

Emulsion Batches:

Date 1995 Sep 27/28 Observers V.n.k. I.Tn

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC359 15/16	Inboard / outboard					00 10E	+43°	FeAr clear	60/60
17	BIAS(4)		Times & Date WRONG						
18/26	FLATS x 9					00 14W	"	Tung Ap 1/4	8s
27	Comp		Time edited.	1847 ✓				FeAr clear	60s
28	HD177724	190049	+13 4253	1849 ✓		≈0000			58s
29	Comp	(clock Reset)		1856				"	60s
30	Comp							"	60s
31	HD 162714	174717	-06 0709	190301		0124W			300
32	Comp							"	60s
33	BIAS(4)			1914					
34	Comp							"	60s
35	HD 347827	175649	+19 1500	191934		0202W			2136
36	Comp							"	60s
37	Comp							"	60s
38	HD 229414	184118	+12 1400	200432		0158W			1871
39	Comp							"	60

CCD Spectr. Temp. −101.7 °C Dome Temp./Hum. 7.1 60°C 61% Transparency Conditions .. Fine

Focus ... 6.73 ... unchanged from previous night 90 c gain

CCD Spectr. Temp. −100.9 °C Dome Temp./Hum. 7.1 3.8° 55% H Lambda 420 0 50 1024 4 1 CCDFMTT

Exp. Mtr.	Seeing	FV Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASSCCD	1800 l/mm G=6100	306	6603A	3/4	focus	Right on ⊙ Blue end	1m Ax ADU.
								1/2			
								2	best to use with previous night as well.		13K
								5			
99K		799	AOV n					6	Telluric Std		6K
								7			
								8			
4000	4"	618	F8I ab					9	Rm cepheid 1.665 Air mass		7K
								10			
								1/2			
								11			37K
785	2"-3"	3.10						12	cepheid Vn K (90/1 S/N)		
								13			
								14			
715	2"-3"	9.7 -10.4						15	cepheid Vn K (95/1 S/N)		
								16			

PG52 Wed/Thurs

Date 1995 Sep 27/28 Observers V.K./Jr

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc35940	BIAS(4)								
41	Comp							FeAr Clear	60s
42	HD 229680	18 45 54	15 49 00	20 44 27		02 34 W			1884
43	Comp							"	60s
44	Comp							"	60s
45	HD 356404	19 52 48	+10 46 00	21 27 34		01 53 W			1200
46	Comp							"	60s
47	BIAS(4)								
48	Comp							"	60s
49	V572 Aql	19 57 27	00 25 00	21 55 53		02 37 W			2062
50	Comp							"	60s
51	BIAS(4)								
52	Comp							"	60s
53	HD 354511	19 56 35	+15 31 00	22 41 15		03 20 W			1885
54	Comp							"	60
55	BIAS(4)								

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions . Slightly hazy 70

Focus . . 6.73 .....

Spectr. Temp. ..... Dome Temp./Hum. +11.7°C 64.5% H

Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASS CCD	1500 l/mm G-6100	306.	6603A	1/2			
								17			
500	3"4"	A 10.5						18	Cepheid	Vnk AP Her	
								19			
								20			39K
500	3"3"	9.7 -10.2						21	Cepheid	Vnk	
								22			
								1/2			
								23			
400	3"4"	11.0 -11.4						24	Cepheid Vnk		
								25			
								1/2			
								26			
511	3"5"	9.8 -10.2						27	Cepheid	Vnk	
								28			
								1/2			

Pg#3 Wed / Thurs

Date 1995 Sep 27/28 Observers V.K. / Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC35956	Comp							Fe3+ clear	60
57	V 383 Cyg	20 25 03	+33 48 00	23 22 21		03 41 W			2319
58	Comp							"	60
59	Comp							"	60
60	BD+03 4437	2000 20 50 13	+03 39 08	00 08 43		03 43 W			944
61	Comp							"	60s
62	BIAS (4)								
63	Comp							"	60s
64	BD+17 4572	21 19 21	+17 51 00	00 49 38		03 59 W			1500
65	Comp							"	60s
66	Comp							"	60s
67	IX Cas	23 59 42	+49 41 00	01 26 27		02 10 W			2415
68	Comp							"	60s
69	BIAS (4)								
70	Comp	for BD Cas						"	60

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ... OK .....

Focus ... 6.73 .....

Spectr. Temp. CCD -100.5°C ..... Dome Temp./Hum. +11.3°C 84.4% H

72

Exp. Mtr.	Seeing	Plate Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASS CCD	1200 l/mm G=6100	30μm	6603Å	5			
566	3"	106 -11.2						6	Cepheid	V+K	
								7			
								8			
700	4-6"	8.85	F8					9	Cépheid V+K	80/1 S/N	
								10			
								1/2		CCD T = -100.5°C	
								11			
1200	5"	8.9 -9.5						12	Cepheid	V+K	
								13			
								14			
310	2-3"	11.2 -11.8						15	Ceph	V+K	
								16			
								1/2			
								17			

Npg#4 Wed/Thurs

Date 1995 Sep. 27/28 Observers Vnk/Tu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc35971	BD Cas	00 04 39	+60 57 00	02 18 30		02 51 W			2000
72	Comp							FeAr Clear	60s
73	BIAS(4)								
74	Comp							"	60s
75	DQ And	00 53 54	+44 52 00	03 00 56		02 50 W			2400
76	Comp							"	60s
77	Comp								60s
78	Nova Cas 95	01 04 55	+53 59	03 49 37		03 01 W			454
79	Comp							"	60s
80	BIAS(4)								
81	Comp							"	60s
82	BD+03 601	04 24 33	+04 07 24	04 07 26		00 13 W			1200
83	Comp							"	60s
CG80 66/69	HD 29587	4 34 30	+4 57	04 38				4x	67mg
CG80 70/71	"					00 07 W		2x	133mg

1995+7 mg correct coords Tu

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ... OK 74

Focus ... 6.7.3 .....

Spectr. Temp. ..... Dome Temp./Hum. +9.9°C 85.3% Light variable direction wind. No Runs tonight

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter 500	2"-3"	10.8 -11.2		CASS CCD	1800 l/mm G=6100	306u	6603A	18	Cepheid	V&K (80/1 S/N)	
								19			
								1/2		CCDT = -100.6°C	
								20			
260		11.2 -12.0						21	Cepheid	V&K	
								22			
								23			
500	3"							24			B&K
								25			
								1/2			
								26			
800	4"	9.39	A7					27	Cepheid	V&K	
								28			
	3"-5"	7.29	dG2		Above	306u Slit			Seeing Test	No Wind now	
									" "		

Pg #5 wed/Thurs

Date 1995 Sep 27/28 Observers Vn K/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC35984	Comp							FEA Clear	60
85	HD 29587	4 34 30	+15700	04 43 36		00 18 W			404
86	Comp							"	60
87	BIAS(4)								
88	Comp							"	60
89	HD 22484	03 31 46	+00 05 04	04 59 49		01 34 W			100
90	Comp							"	60
91/92	Inboard/out board					0 0	+32°	FEA Clear	60/60

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ..Slight haze/fog....

Focus ... 6.73 .....

Spectr. Temp. ..... Dome Temp./Hum. 19.5°C 86%H

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASSCCD	1800l/m @=6.00	306u	6603	5			max
2200		729	G2					6	Stilvel		
								7			
								1/2			
								8			
6K		438	F9-V					9	Stilvel		4.7
								10			
								3/4	focus test		
			All to Perseus, Dat, D: CDROM\950\Cass								

Pg #1

Date 1995 September 28/29 Observers Vnk / Smt

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC35993/94	INBOARD/OUTBOARD							Fe Ar clear	60/70
95	BIAS(4)			20 24					—
96	COMP							"	60
97	HD 356404	19 52 48	+10 46	20 34 56					1820
98	COMP							"	60
99	BIAS(4)			21 22					—
CC36000	COMP							"	60
01	V572 Aql	19 57 27	+0 25	21 30 03		2 20 W			2400
02	COMP							"	60
03	BIAS(4)			22 17					—
04	COMP							"	60
05	HD 354511	19 56 35	+15 31	22 20 35		3 02 W			1800
06	COMP							"	60
07	COMP							"	"
08	BD+03 4437	20 50 13 2000.0	+3 39 08	23 00 14		2 43 W			1200
09	COMP							"	60

CCD Spectr. Temp. -.100°C..... Dome Temp./Hum. 8.2°C/68.4% Transparency Conditions ..clear!.....

Focus .....6.73..... @ V572 Aql

Spectr. Temp. ..... Dome Temp./Hum. .....

420 0 50 1024 4 1 ccdfast

Exp. Mtr.	Seeing	V Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Filter	Pair	Program	Remarks	Quality
no filter				CASS CCD	1800 l/mm G=6100		6601 Å	3/4	FOCUS TEST	T=9.3 in focus	
								1			
								5			
610	4"	9.73 - 10.16						6	Vnk Pop II Cepheid	V733 Aql	
								7			
								1			
								8			
410	4"	11.00 - 11.44						9	Vnk Pop II Cepheid		200 ADU above b/g
								10			
								1			
	4"-5" ↓	9.82 - 10.56 ↓						11			
500								12	Vnk Cepheid	KL Aql	350 above b/g
								13			
								14			
1000	5"	8.85	F8					15	Vnk Cepheid	TX Del	
								16			

Rpg #2

Date 1995 September 28/29 Observers Vnk / Smt

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36010	BIAS(4)			23 23					
11	COMP							FeAr clear	60
12	V383 Cyg	20 25 03	+33 48	23 30 53		3 49 W			2082
13	COMP							"	60
14	COMP							"	"
15	BD+17 4572	21 19 21	+17 51	0 13 53		3 26 W			1401
16	COMP							"	60
17	BD+17 4572			0 44 50		3 54 W			1218
18	COMP							"	60
19	BIAS(4)								—
20	COMP			1 08				"	60
21	DQ And	00 53 54	+44 52	1 16 55		1 13 W			2564
22	COMP							"	60
23	BIAS(4)			2 03					—
24	COMP							"	60

Spectr. Temp. ..... Dome Temp./Hum. 7.3°C/72.4% Transparency Conditions ... Some cloud. (airplane vapory trails too)

Focus ..... 6.73 FANS ON 80

Spectr. Temp. ..... Dome Temp./Hum. .....

410 0 50 1024 4 1 ccdfast

Exp. Mtr.	Seeing	~~V~~ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	~~P.H.~~	Program	Remarks	Quality
				CASS CCD	1800 l/m G=6100	306μ	6601 Å	1			
								17			
415	4"	10.60-11.17						18	Pop II Vnk Cepheid		
								19			
								20			
770	4"	8.98-9.47						21	Pop II Vnk Cepheid	AU Peg, He is very shallow strong emission	650 above b/g
								22			
700	4"	"						23	Pop II Vnk Cepheid	AU Peg. 2nd time He is st. V shallow	
								24			
								1			
								25			
320		11.23-12.00						26	Pop II Vnk Cepheid	lots of cosmic rays in spectrum. weak!!	200 above b/g
								27			
								1			
								28			

pg #3

Date 1995 September 28/29 Observers Vnk / Smt

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36025	IX Cas	23 59 42	+49 41	2 13 48		~3h W			2419
26	comp			3 16*				"	60
27	BIAS(4)			3 18					
28	COMP							"	60
29	BD Cas	0 04 39	+60 57	3 27		4 04 W			2000
30	COMP							"	60
31	COMP							"	"
32	HD29587	4 34 30	+41 57	4 08 31		0 14 E			362
33	COMP							"	60
34	BIAS(4)			4 17					
CG80172→175	HD29587 x4	4 34 30	+41 57						.067
176/177	" x2				4 22	0 05 E	88° Alt		.133
35	COMP							Fcat clear	60
36	BD+03 601	4 24 33 (2000.0)	+4 07 24	4 30 41		0 43 W			1400
37	COMP							"	60

CCD
Spectr. Temp. -104.9°C Dome Temp./Hum. 7.1°C/78.0% Transparency Conditions clear 8.2

Focus 6.73 FANS ON (N ONLY)

Spectr. Temp. ..... Dome Temp./Hum. 7.4°C/82.8% @ seeing test 420 0 50 1024 4 1 ccdtest

Exp. Mtr (no Filter)	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
?	4"	11.19 - 11.27		CASS CCD	1600 ℓ/mm G=6100	30μm	6601 Å	29	Pop II Vnk Cepheid.	spec. controller failed badly	
								30		a little late	
								1			
								5			
445	4"	10.84 - 11.21						6	Pop II Vnk Cepheid.		
								7			
								8			
2000	4"	7.29	dG2					9	Std. Vel.		
								10			
								1			
[illegible] Those is a bit faint - saved [illegible]		7.29 "	dG2 "	EEV CCD TV GUIDER		above 30μm		—	SEEING TEST	Dome W, light wind variable direction clear with haze on horizon,	
								—	"	95% on eastwalk	
				CASS CCD	same as top - - -			11			
570	4"	9.99	A7					12	Pop II Vnk Cepheid	SW Tau	
								13			

pg #4 (calibrations)

Date 1995 September 28/29 Observers Vnk / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36038-43	FLAT x 6					0 51 W	+4°	Tung 4 Ap	8
44	BIAS (4)			5 02					—
45/46	INBOARD/OUTBOARD	HARTMANN						Fed clear	60/65

CCD

Spectr. Temp. -100°C Dome Temp./Hum. 7.4°C/84.7% Transparency Conditions clear, getting brighter 84

Focus 6.73

Spectr. Temp. ..... Dome Temp./Hum. ..... 420 0 50 1024 4 1 ccd hot

Exp. Mtr	Seeing	Pig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 R/mm G-6100	30μm	6601 Å	14			13.5K →13.0K
								1			
								3/4	FOCUS TEST		

pg #1

Date 1995 September 29/30 Observers Vnk / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36047/48	INBOARD/OUTBOARD							FeAr clear	60/65
49	BIAS(4)			19 00					—
50	COMP							"	60
51	HD162714	17 47 17	-6 07 09	19 09 44		1 40 W			260
52	COMP							"	60
53	COMP							"	"
54	HD347827	17 56 49	+19 15	19 25 24		2 00 W			1200
55	COMP							"	60
56	BIAS(4)			19 53					
57	COMP							"	60
58	BD+17 4572	21 19 21	+17 51	19 57 29		0 47 E			1400
59	COMP							"	60
60	COMP							"	"
61	HD229680	18 45 54	+15 49	20 30 00		2 30 W			2400
62	COMP							"	60

CCD
Spectr. Temp. ..100.5°C.. Dome Temp./Hum. 14.6°C/66.1% Transparency Conditions ..thin clouds.. 4-6
@ 80ph.
Focus ..6.73.. FANS OFF
Spectr. Temp. .. Dome Temp./Hum. .. 420 0 50 1024 4 1 ccdfast

Exp. Mtr.	Seeing	~~Mag.~~ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				CASS CCD	150 l/mm G=6100	3x4m	6602	3/4	FOCUS TEST	T= 15.3°C, set a bit cool intentionally	
								1			
								5			
4100	3-4"	6.18	F8Ib					6	Vnk / Rus	~~Scatty noisy~~	
								7			
								8			
600	3"	9.70-10.62	F0-6II-III					9	Vnk Pop II Cepheid	BL Her really noisy	
								10			
								1			
								11			
1300	3-4"	~~10.2~~ 10.2 ← 8.9 -9.5						12	Vnk "	AU Peg huge emission spike just red side of Hα	I.I continuum 1-3K
								13			
								14			
121 after 600s	3-4"	10.2-11.2						15	Vnk "	AP Her spec. controller failed mid exposure ∴ lost exp. info.	
								16			

pg #2

Date 1995 ~~September 29/30~~ Observers Vnk / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36063	BIAS(4)			21 14					—
64	COMP							Fe Ar clear	60
65	V512 Aql	19 57 29	+00 25	21 19 11		~2 20 W			2400
66	COMP							"	60
67	BIAS(4)			22 03					—
68	COMP							"	60
69	HD 356404	19 52 48	+10 46	22 19 27		3 08 W			1800
70	COMP							"	60
71	BIAS(4)			22 54					—
72	COMP							"	60
73	HD 354511	19 56 35	+15 31	22 58 00		3 36 W			7337
74	COMP							"	60
75	COMP							"	"
76	BD+03 4437	20 50 13 2000.0	+3 39 08	23 27 07		3 15 W			1236
77	COMP							"	60

Spectr. Temp. ..... Dome Temp./Hum. 13.6°C / 70.3% Transparency Conditions hazy, some clouds in Aql

Focus 6.7.3 FANS OFF 88

Spectr. Temp. ..... Dome Temp./Hum. ..... 420 0 50 1024 4 1 ccd dat

Exp. Mtr.	Seeing	V Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				CASS CCD	1 grating G=6100	300μ	6602Å	1			
								17			
465	2"-3"	11.00-11.44						18	Vnk Pg II Capteid.		
								19			
								1			
								20			
600		9.7-10.2						21	Vnk "	V733 Aql some thin cloud	some more hazy
								22			
								~~21~~			
								23			
490		9.82-10.56						24	Vnk "	KL Aql some thin cloud.	
								~~25~~			
								26			
785	3"-4"	8.85	F8					27	Vnk "	TX Del hazy here.	good.
								28			

pg # 3

Date 1995 September 29/30 Observers Vnk / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36078	BIAS(4)			23 53					—
79	COMP							Fe4r clear	60
80	V383 Cyg	20 25 03	+33 48	23 56 31		4 14 W			1800
81	COMP							"	60
82	COMP							"	"
83	BD+17 4572	21 19 21	+17 51	0 39 52		~3h W			1613
84	COMP							"	60
85	BIAS(4)								—
86	COMP							"	60
87	IX Cas	23 59 42	+49 41	1 23 35		2 16 W			2400
88	COMP							"	60
89	BIAS(4)			2 07					—
90	COMP							"	60
91	BD Cas	0 04 39	+60 57	2 13 22		2 51 W			1800
92	COMP							"	60

Spectr. Temp. ..... Dome Temp./Hum. 12.7°C / 74.0% Transparency Conditions . hazy .....

Focus ..... 6:73 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

FANS OFF

420 0 50 1024 4 1 coadd fast

Exp. Mtr.	Seeing	~~Elev.~~ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm G=6100	300μ	6600 Å	1			
								29			
545		10.6 - 11.2						30	Vnk Pop II Explored	pretty fair night nothing exciting even @ max mag.	fine.
								31			
								5			
1250		8.9 - 9.5						6	Vnk "	AU Peg 2nd time tonight very hazy here.	
								7			
								1			
								8			
344		11.2 - 11.8						9	Vnk "	very hazy, weak	~200 above b/g
								10			
								1			
								11			
380	2"-3"	10.8 - 11.2						12	Vnk "	hazy, normal spectrum	Fine
								13			

pg #4

Date 1995. September 29/30 Observers Vnk./Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36093	COMP							FeAr clear	60
94	DQ And	0 53 54	+44 52	2 52 47		2 50 W			2400
95	COMP							"	60
96	BIAS(4)			3 36					—
LGE0178 →181	HD25022 x4	3 53 24	+39 44 00						.067
182/183	" x2				3 46	0 03 W	86° Alt		.133
cc36097	COMP							FeAr clear	60
98	HD23169	3 37 54	+25 25	3 55 50		0 41 W			684
99	COMP							"	60
cc36100	COMP							"	"
101	BD+03 601	4 24 33 2000.0	+4 07 24	4 14 53		0 50 W			1447
102	COMP							"	60
103	BIAS(4)			4 42					—
104–109	FLAT x 6					1h W	+4°	Tung ¼ Ap	8
110/111	INBOARD/OUTBOARD					0h	∼30°	FeAr clear	60/65

CCD Spectr. Temp. −100.4°C Dome Temp./Hum. 12.9°C / 80.7% Transparency Conditions very hazy, some clouds

Focus 6.73

Spectr. Temp. Dome Temp./Hum. 12.8°C / 82.0% @ SEEING TEST FANS OFF 92

420 0 50 1024 4 1 ccd fmt

Exp. Mtr.	Seeing	V Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 ll/mm G=6100	30μ	6602Å	14			
364	2"	11.2 - 12.0						15	Vnk Pop II Cepheid	very faint, not much above sky, poor guiding	
								16			
								1			
	2"	6.84	AUV	GET CCD TV GUIDER		above 30μ		—	SEEING TEST	Dome SW, no wind, partly cloudy but clear here, good seeing	
" maybe even <2"								—	"		
				CASS CCD...				17			
260	2"	8.75	G2V					18	Std Vel.		
								19			
								20			
675	2"-3"	9.34	A7					21	Vnk Pop II Cepheid.	SW Tau, hazy here.	
								22			
								1			
								2			13.5K → ?
								3/4	FOCUS TEST	end of night	

pg #1 (Sat/Sun)

Date 1995 September 30/October 1 Observers Vnk/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 3611 2/113	INBOARD/OUTBOARD							Feather clear	60/60
14	BIAS(4)			23 17					—
15	COMP							"	60
16	BD+17 4572	21 19 21	+17 51	23 20 50		~2 30 W			1801
17	COMP							"	60
18	COMP							"	"
19	BD+03 4437	20 50 13 2000.0	+3 39 08	0 03 18		3 50 W			906
20	COMP							"	60
21	BIAS(4)			0 24					—
22	COMP							"	60
23	BD+17 4572	21 19 21	+17 51	0 26 59		3 53 W			1800
24	COMP							"	60
25	COMP							"	"
26	IX Cas	23 59 42	+49 41	1 05 44					2400
27	COMP							"	60

CCD
~~Spectr~~. Temp. -100.9°C Dome Temp./Hum. 13.2°C / 85.2% and ↑ Transparency Conditions. clear but hazy on horizon??
@ focus test
Focus 6.73 FANS ON (N ONLY ACTUALLY)
Spectr. Temp. ..... Dome Temp./Hum. 13.4°C / 86.1% and stable 420 0 50 1024 4 1 ccdfmt
@ 2nd AU Peg

Exp. Mtr.	Seeing	√ ~~Dig~~ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
Alter				~~1600~~ CASS CCD	1800 Rl/mm G = 6100	306m	6602 Å	3/4			
								1		95% R/H on saturn/k but still dry enough to be open.	
								5			
1300	3"	8.7-9.5						6	Vnk Pop II Cepheid	AU Peg	
								7			
								8			
170	3"	8.85	F8					9	Vnk "	TX Del. close to platform spec. controller failed.	weak
								10			
								1			
								11			
1645		8.9-9.5						12	Vnk "	AU Peg again.	
								13			
								14			
384	3"	11.2-11.8						15	Vnk "		
								16			

Q9 #2

Date 1995 Sept 30/Oct 1 Observers Vnk/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36128	BIAS(4)			1 48					—
29	COMP							Fab clear	60
30	BD Cas	0 04 39	+60 57	1 56 34					1804
31	COMP							"	60
32	COMP							"	"
33	DQ And	0 53 54	+44 52	2 38 52		2 40 W			2400
34	COMP							"	60
35	BIAS(4)			3 22					—
36	COMP							"	60
37	star to SW of HD23169	3 37 54	+25 25	3 28 00		0 15 W			600
38	COMP							"	60
	~~star to SE of HD23169~~			~~5 41 23~~					
39	COMP							"	60
40	HD23169	3 37 54	+25 25	3 55 21		0 43 W			600
41	COMP							"	60

Spectr. Temp. ..... Dome Temp./Hum. 13.1°C / 83.7% Transparency Conditions . clear ..... 9.6 ..

Focus ..... 6.73 ..... @ DG/Ind

Spectr. Temp. ..... Dome Temp./Hum. .....

N FAN ON

420 0 50 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	~~V~~ Mag	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm G=6100	30μm	6602 Å	16			
								17			
412		10.8-11.2						18	Vnk Pop II Cepheid		
								19			
								20			
271		11.2-12.0						21	Vnk "		
								22			
								1			
								23			
975	3"	~~9.1~~	~~G2V~~					24	~~Std. Vel.~~ SB?	dbl lined spectrum! (which line is std vel?)	>1K
								25		-10^s ap ra and $+2^m$ in dec away from HD23169	
		~~8.75~~						~~26~~			
								27			
1237	3"	8.75	G2V					28	Std. Vel		
								29			

pg #3

Date 1995 Sep 30/Oct 1 Observers Vnk/Smt

Emulsion Batches: .....

.....

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36142	BIAS(4)			4 08					—
43	COMP							Fe Ar clear	60
44	HD29587	4 34 30	+41 57	4 16 18		0 02 W			323
45	COMP							"	60
CG80184-87	HD29587 x4	4 34 30	+41 57						.067
88/89	" x2				4 27	0 07 W	88° Alt		.133
cc36146	COMP							Fe Ar clear	60
47	BD+03 601	4 24 33 (2000.0)	+4 07 24	4 34 38		0 52 W			1254
48	COMP							"	60
49	COMP							"	"
50	NOVA CAS 95	14h RA (1995.75) 1 04 50	14h DEC +53 58 36	5 07 43		4 34 W			627
51	COMP							"	60
52	BIAS(4)			5 21					—
53-58	FLAT x 6					0 05 W	+29°	Tung Ag Ap	8
59/60	INBOARD/OUTBOARD							Fe Ar clear	60/64

CCD
Spectr. Temp. -100.9°C Dome Temp./Hum. 13.1°C/84.4% Transparency Conditions clear 98

Focus 6.73 N FAN ON

Spectr. Temp. Dome Temp./Hum. 12.9°C/84.5% @ SEEING TEST 420 0 50 1024 4 1 cool fast

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm G=6100	306u	6602 Å	1		spec. cont. failed.	
								5			
2080	3"	7.29	dG2					6	Std. Vel		
								7			
	3"	2.29	dG2	EEV CCD		above 306u		–	SEEING TEST	Done W, no wind, CLEAR,	
	→2"			TV GUIDER				–	"	dome wet in places, 92% catwalk	
				CASS CCD				8			
910	2"-3"	9.39	A7					9	Vnk Pop II Cepheid	SW Tau for comparison	
								10			
								11			
580	3"-4"	~9	e					12	Vnk Nova	cont'm ~400 ADU → 1K above b/g	4K
								13			
								1		sky getting bright	
								2			13.0K →
								3/4	FOCUS TEST	T=12.0	

pg #1 (Sun/Mon)

Date 1995 Oct 1/2 Observers Mki / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CCD 61/62	INBOARD/OUTBOARD							Featureless clear	60/60
63	BIAS(4)			2 58					—
64	COMP							"	60
65	BD+16 516	3 44 43	+16 57 06	3 06 23		0 01 E			1090
66	"			3 26 16		0 16 W		"	900
67	"			3 41 38					900
68	"			3 56 59		0 47 W			900
69	COMP							Featureless clear	60
70-72	FLAT x 3							Tung 1/4 Ap.	8
73	BIAS(4)			4 17					—
74	COMP							Featureless clear	60
75	BD+16 516	3 44 43	+16 57 06	4 20 21					900
76	"			4 35 43		1 26 W			900
77	"			4 51 05		1 41 W			900
78	"			5 06 26					900
79	COMP							Featureless clear	60

Spectr. Temp. ~100°C ..... Dome Temp./Hum. 16.4°C / 70.0% with dome just opened Transparency Conditions ..clear, windy ..... IQ ..

Focus ..... 6.73 .....

Spectr. Temp. ..... Dome Temp./Hum. 14.8°C / 72.4% FANS OFF

425 o 50 1024 4 1 coadd

Exp. Mtr	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
no filter				CASS, CCD	1800 l/m G=6100	300μ	6602 Å	3/4	focus test	still cooling from -90°C. T=15.0°C in focus.	
								1			
								5			
743	4"	9.40-9.71	0.65# KOI+rd					6	Mki	1st series. V471 Tau, poor guiding	
590								7	"	" better guiding	
598								7	"	"	
610								7	"	"	
								8			
								9			13.0K → 12.5K
								1			
								10			
thus + this = 1220	4"	9.40-9.71	0.65# KOI+rd					11	Mki	2nd series guided further V471 Tau away from hot pixel	
		"	"					11	"	"	
522		"	"					11	"	"	
	4"	"	"					11	"	"	
								12			

pg # 2

Date 1995 Oct 1/2 Observers Mki / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36180 -82	FLAT x3					2 02 W	+17°	Tung ¼ Ap	8
83	BIAS(4)			5 27					—
84	COMP							Fe4r clear	60
85	HD87901	10 03 03	+12 27 22	5 36 33					10
86	[redacted] "			5 38 14		4 03 E		"	15 [redacted]
87	COMP							Fe4r clear	60
88-90	FLAT x3					↑	↑	Tung ¼ Ap	8
91	BIAS(4)			5 44		4h E	+12°		—
92/93	INBOARD/OUTBOARD					0h 00m	+38°	Fe4r clear	60/64
cc36194	Bias (4)	Oct 7/8	Tests						
95/96	Inboard/outboard	Oct 7/8		22 52		0 0	+29°	Fe4r Clear	60/64
97	Comp. no Hartman mask ie normal					"	"	"	60s
98	FLAT					"	"	Tung Ap 1/8	8s
99	FLAT fod 1200 l/mm			23 23	Note GG 385 Bl In Source Beam	"	"	"	8s
cc36200	Comp	"			"	"	"	Fe4r Clear	60sec
01/02	INBOARD / OUTBOARD				"	"	"	"	60/75

CCD
Spectr. Temp. -100°C Dome Temp./Hum. 13.3°C / 78.2% Transparency Conditions. clear 10.2

Focus 6.73

Spectr. Temp. Dome Temp./Hum.

FANS OFF
425 0 50 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	V ~~Pg.~~ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
no filter				CCD	1800 l/mm G=6100	306μ	6602 Å	13			13.0 → 12.8K
								1			
								14			
12K		1.36	B7V					15	Telluric Std.	Regulus. bright sky	3K
15K		"	"					16	"	"	4K
								17			
								18			13.5K → 13.3K
								1			
								3/4	Focus TEST		
T=12.4°C Set 6.77				COT = -101.0°C	1800 l/mm G=6100	306μ	6602 Å	3/4	focus test	out Round -.15 pix at 6604 Å CCD = mT 425 0 50 1024 4 1	11.4K
Max Strength of 6604.85 Å = 460 ADU					"	"		5		at 6671 Å →	3.7K
					"	"		6		MAX of Hα = 3.3 K 400 0 50 1024 4 1	
T=12.3°C Set 6.77 still					1200 l/mm G=4520	"	Ht Row 512 6551 Å ± 1 Å	8	Hot pixel at col 31	Max of Hα = 5.6 K	
MAX Strength of 6604.85 Å = 500 ADU					"	"	"	7		@ 6671 Å → 3.6 K	
12.2°C	Set 6.77				"	"	"	9/10	focus test	~~Out Round~~ +.30 pix @ 6604 Å	

#1

Date 1995 October 9/10. Observers [Rm] Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC36203/04	INBOARD/OUTBOARD			18 40				Fe4r clear	50/60
05	BIAS (4)			?					—
06	COMP							"	60
07	HD180583	19 11 59	+27 44 59	19 45 23		1 31 W			400
08	COMP							"	60
09	BIAS (4)			19 55					—
10	COMP							"	60
11	HD187691	19 46 14	+10 09 55	20 01 38		1 13 W			400
12	COMP							"	60
13	HD187691			20 11 32		1 19 W			180
14	COMP							"	60
15	COMP							"	"
16	HD203156	21 15 23	+37 48 55	20 23 45		0 06 W			400
17	COMP							"	60
18	BIAS (4)			20 35					—

CCD
Spectr. Temp. -100.4°C Dome Temp./Hum. 11.8°C / ? Transparency Conditions partly cloudy, patchy 10%
@ FOCUS TEST
Focus 6.77
Spectr. Temp. Dome Temp./Hum. 10.5°C / 74.2% Fans on until observing; done closed for a week beforehand.
@ 4P/S/69?
412 0 50 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	√ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
agk no filter				CASS CCD	1800 ℓ/mm G=5945	30μm	6400 Å 3111	3/4	Focus TEST	in focus, maybe sl. cool.: good.	
								1		1 hour cloud break.	
								5		hot pixel @ col 29	
3090	4"	⟨V⟩ 6.19	F6I-IIb					6	Rm	some cloud here on and off. centered on col 21 V473 Lyr	3.8K
								7			
								1		banks of patchy clouds running from SW to NE of sky, moving ~WSW.	
GG 560 FILTER								8			
1060	?	5.11	F8V					9	Std. Vel.	more cloud than star timewise, some sky lines	2.2K
								10			
2700	4"	5.11	F8V					11	Std. Vel	clear patch. MUCH better exp.	7.0K
								12			
								13			
2750	3-4"	5.8-5.9	F2					14	Rm	pretty much clear here. V1334 Cyg.	6.3K
								15			
								1			

Pg #2

Date 1995 October 9/10 Observers [Rm.] Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC36219	COMP							FeAr clear	60
20	HD331970	20 08 27	+32 34 16	20 38 38		1 55 W			2000
21	COMP							"	60
22	COMP							"	"
23	HD214975	22 36 54	+56 19	21 24 05		0 05 E			965
24	COMP							"	60
25	BIAS(4)			21 43					—
26	COMP							"	60
27	HD215159	22 38 15	+53 23 08	21 47 55		0 04 W			200
28	COMP							"	60
29	COMP							"	"
30	VY Per	2 20 19	+58 28 04	22 08 01		2 34 E			3000
31	COMP							"	60
32	BIAS(4)			23 01					—
33 - 38	FLAT x 6					2 26 E	+59°	Tung ¼ Ap	8
39/40	INBOARD/OUTBOARD							FeAr clear	50/60

CCD Spectr. Temp. -100.5°C ..... Dome Temp./Hum. 10.2°C / 75.6% Transparency Conditions cleared up, full moon rising!

Focus ..... 6.7.7 .....

Spectr. Temp. ..... Dome Temp./Hum. 9.8C / 18.6% @ Focus TEST FANS OFF

412 0 50 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	Dec. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
GG 560 FILTER				CASS CCD	1800 l/mm G=5945	306μ	6400Å	16			
985		9.1 - 9.8	F8-G2Ib					17	Rm	some sky lines MW Cyg	1.6K
								18			
								19			
1390	3"	<V> 8.40	~GOIb					20	Rm	cosmic ray in strongest column (25) Z Lac	3.5K
								21			
								1			
								22			
2200	3"	6.19	K2					23	Rm	Z Lac vel. comparison (not cycloid)	6.4K
								24			
								25			
422	3"	10.8 - 11.66	F5-F9					26	Rm	Δα = +16s tough to find. Δδ = -57s sky lines & cosmic rays	340 above b/g
								27			
								1		clouding in fast	
								2		closed dome after flats.	13.5K → 12.8K
								28/29	FOCUS TEST	sl. warm it anything went through telescope tonight.	

10X

Tues/wed

Date 1995 Oct 10/11 Observers T.n T. tests only after all

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC362 41/42	Inboard/outboard Hartmann					0 0	20°	FeAr Clear	60/65
43/44	Inboard/outboard Hartmann			22 45		0 0	with OG560 Filter	FeAr Clear	50/75
						0 0	20°		
45	Comp, full aperture			FWHM @ 6604Å/mm = ~3.5 pixels			OG 560 Filter	FeAr Clear	60s
46	FLAT						"	TUNG Ap 1/8	8sec
47	BIAS(4)	Average of 4 biases							
48	Comp, full aperture						GG385 Filter	FeAr Clear	60s
49	FLAT						"	TUNG Ap 1/8	8sec

CCD
Spectr. Temp. -100°C ..... Dome Temp./Hum. 3 +13.5°C 81%H Transparency Conditions Increasing fog 108

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. ..... Clear, Late

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
133°C	Sel 677			CASS CCD	1200 l/mm G=6100	306	6604Å	3/4	focus test	CCD Fmt AIJ 0 50 1024 41	
130°C	Sel 686				Coarse (J) G=4568	306	6634±5Å	9/10	focus test	CCD Fmt 343 0 50 1024 41	
Note	Hoang to find good G value to use to avoid "ghosts" in tra							Hotlet	trans etc *	G=4568 results in pair of "ghosts"? near center, away from goal comparison lines.	
6604 In strength max = 260 ADU					Coarse G=4568			11	Hα = of Rac 750		
Strength @ Hα = 2.35K ADU, Thanks 2.35K ADU								13		MAX =	2.64K
								1/2			
6604 In strength = 257 ADU FWHM = 3.5 pixels								14			
Strength @ Hα = 2.3 K ADU								15		Blue end MAX =	2.62K

Pg #1

Date 1995 October 11/12 Observers Mki / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36250/51	INBOARD/OUTBOARD							FcAr clear	50/50
52	BIAS (4)			19 10					—
53	COMP							"	60
54	HD177724	19 00 49	+13 42 53	19 22 07		~1 30 W			36
55	COMP							"	60
56	COMP							"	"
57	BM Cas	0 48 36	+63 33	19 36 59		4 10 E			350
58	COMP							"	60
59	BM Cas			19 46 51		3 50 E			900
60	COMP							"	60
61	BIAS (4)			20 05					—
62	COMP							"	60
63	HD3712	0 34 50	+55 59 20	20		3 23 E			30
64	COMP							"	60
65	COMP							"	"

CCD
~~Spectr.~~ Temp. -100.4°C Dome Temp./Hum. 16.2°C / 62.9% Transparency Conditions clear 1.10

Focus 6.74 FANS OFF

Spectr. Temp. ..... Dome Temp./Hum. ..... 408 0 50 1024 4 1 continuous

Exp. Mtr.	Seeing	~~V~~ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
No filter				CASS CCD	1800 ℓ/mm G=6100	30μm	6604 Å	3/4	FOCUS TEST	good focus now.	
								1			
								5			
11.5K		2.99	A0 I_{IV}					6	Telluric Std.	trailed.	4.8K
								7			
								8			
~600		8.82 - 9.33	? e					9	Mk	abl peaked emission @ Hα with deep absorption to. test exposure.	1.0K con'm 2.4K Hα
								10			
1237	3"	"	? e					11	Mk	longer exposure nicer.	7.0K
								12			
								1			
								13			
20K		2.23	K0 III_a					14	Std. Vel.	trailed again.	
								15			
								16			

pg #2

Date 1995 October 11/12 Observers Mki / Smt + [Vnk]

Emulsion Batches: .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
EC36266	NOT NOVA CAS 95	1 04 50	+53 58 36	20 40 21		3 15 E			700
67	COMP							Feb clear	60
68	COMP			21 49				"	60
69	BD+17 4572	21 19 21	+17 51	21 50 58		1 51 W			1205
70	COMP							"	60
71	BIAS(4)			22 19					—
72	COMP							"	60
73	HD187691	19 46 14	+10 09 55	22 22 54		3 39 W			200
74	COMP							"	60
75-80	FLAT x 6					0 53 W	+38°	Tung ¼ Ap	8
81	BIAS(4)			22 54					—
82	COMP							Feb clear	60
83	HD216598	22 49 06	+37 23	22 57 57		1 19 W			540
84	"			23 09 09					540
85	"			23 18 29					540

CCD
Spectr. Temp. −100.5°C Dome Temp./Hum. 15.3°C / 61.7% Transparency Conditions clear 11.2

Focus 6.74

CCD
Spectr. Temp. −101.7°C Dome Temp./Hum.

FANS OFF

408 0 50 1024 4 1 exposure

Exp. Mtr no filter	Seeing	V Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000	3"	~8-9	LATE TYPE	CASS CCD	1800 ll/mm G=6100	30μ	6604 Å	17	Vnk	time gap before previous comp because set on wrong obj. initially right V mag), counted right, no others in field, really. chip warmed to −50°C in the cisc running, then cooled to −100°C	
								18	saturated ? Focus done accidentally first.		
								18			
1240	3-4"	8.98 - 9.47	F-G					19	Vnk	AU Peg	1.5K
								20			
								1			
								21			
5.5K	3"-4"	5.11	F8V					22	Std. Vel		7.4K
								23			
								24		set on SW Lac, actually.	13.5K → 12.8K
								1			
								25			
1K	3"	8.51 - 9.39	G8Vp+ G8Ip					26	Mki/Hdy	1st series SW Lac not much Ha absorption	1.2K
865								26	"		
870								26	"		

pg #3

Date 1995 October 11/12 Observers Mki / Smt + [Hdq]

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
~~86~~	HD216598	22 49 06	+37 23	23 27 49					~~802~~ 540
87	"			23 37 09					~~710~~ 540
88	"			23 46 24		2 06 W			540
89	COMP							Fe Ar clear	60
90-92	FLAT x 3						+38°	Tung ¼ Ap	8
93	BIAS(47)			00 00					—
94	COMP							Fe Ar clear	60
95	HD216598	22 49 06	+37 23	0 04 41				~~Fe Ar~~	540
96	"			0 14 01					540
97	"			0 23 21					540
98	"			0 32 41					540
99	"			0 42 01					540
a36300	"			0 51 21		3 11 W			540
01	COMP							Fe Ar Clear	60
02-04	FLAT x 3							Tung ¼ Ap	8

Spectr.
Focus
Spectr.

Exp Mtr #1 #2

802
710
710
614
540
410
400
344
458

Spectr. Temp. ..... Dome Temp./Hum. 13.8°C / 66.1% Transparency Conditions clear, just past full moon is high

Focus 6.74 FANS OFF 116

Spectr. Temp. ..... Dome Temp./Hum. ..... 408 0 50 1024 4 1 cod fast

Exp Mtr #1 sec	Seeing	~~Mag~~ Mag	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
802	3-4"	8 51 -9.39	G85p + G85p	CASS red	1800 Rl G=6100	306μ	6604 Å	26	Mk1 / Hdy	1st series SW Lac	
710								26	"		
710								26	"		
								27			
								28			13K → 12.8K
								1			
								29			
614	3"	"	"					30	Mk1 / Hdy	SW Lac 2nd series.	
500.								30	"		
410.								30	"		
400.								30	"		
394								30	"		
458								30	"		
								31			650 ADU
								32			13.4K → 12.8K

pg #4

115

Date 1995 October 11/12 ... Observers Mki./[Hdgn]/Smt.....

Emulsion Batches:

.....

.....

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Spectr. Exp Min
cc36305	BIAS(4)			1 06					—	
06	COMP							FeAr clear	60	
07	HD216598	22 49 06	+37 23	1 10 17					540	515
08	"			1 19 37					"	570
09	"			1 28 57					"	563
10	"			1 38 17					"	642
11	"			1 47 37					"	620
12	"			1 56 57		4 17 W			"	619
13	COMP							FeAr clear	60	
14-16	FLAT x3							Tung. 4 Ap	8	
17	BIAS(4)			2 11					—	
18	COMP							FeAr clear	60	
19	HD216598	22 49 06	+37 23	2 15 39					540	589
20	"			2 24 59					"	
21	"			2 34 19					"	

Spectr. Temp. ..... Dome Temp./Hum. 13.2°C / 62.1% Transparency Conditions. clear, full moon up ... 116 ..

Focus ..... 6.74 ..... FANS OFF getting windy

Spectr. Temp. ..... Dome Temp./Hum. .....

408 0 50 1024 4 1 ccdfmt

Exp. Mtr	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm G=6100	304μ	6604 Å	1			
								5			
515	4"	8.51 - 9.39	G85p +G85p					6	Mki / Hdy	SW Lac 3rd series.	
470								6	"		
563								6	"		
642								6	"		
620								6	"		
619								6	"		
								7			
								8			13.5K →12.9K
								1			1
								13			
589	4"	8.51 - 9.39	G85p +G85p					14	Mki / Hdy	SW Lac 4th series	
								"	"		
								"	"		

#5

Date 1995 Oct 11/12 Observers Mk | Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
22	HD216598	22 49 06	+37 23	02 43 39					540
23	"			02 52 58					"
24	"			03: 0220		5 22 W			"
25	COMP								
26-28	FLAT x 3								
29	BIAS(4)			3 20					

Spectr. Temp. ..... Dome Temp./Hum. 12.8°C/67.2% Transparency Conditions Clear 1.18

Focus 6.74

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
540		8.51 -9.39	G82p G82p	CASS CCD	1800 Rl G=6100	30μm	660nm	14	Mli/Hdy	SW Lac	
525								14			
500.								14			
								15			

pg #1

Date 1995 October 13/14 Observers [illegible]/Smt + [Vnk] (iks as backup)

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC 36 330/31	INBOARD/OUTBOARD							Fetr clear	50/55
32	BIAS(4)								—
33	COMP							"	60
34	HD177724	19 00 49	+13 42 53	18 49 29		0 57 W			60
35	COMP							"	60
36	COMP							"	"
37	HD187691	19 46 14	+10 09 55	19 02 23		0 24 W			120
38	COMP							"	60
39	COMP							"	60
40	BD+17 4572	21 19 21	+17 51	19 14 46		0 43 E			900
41	COMP							"	60
42	BIAS(4)			19 33					—
43-48	FLAT x 6					0 30 E	+18°	Tung ¼ Ap	8
CC 80190-93	HD201750 x4	21 06 30	+36 24						
94/95	" x2				19 57	0 01 E	83° Alt		

cc0 Speed Focus Spectr

Exp. M

20K

53K

945

CCD
Spectr. Temp. -100°C Dome Temp./Hum. 19.2°C/58.5% @ focus test Transparency Conditions .. clear, little hazy 120

Focus 6.68

Spectr. Temp. ..... Dome Temp./Hum. 28.7°C/59.1% @ seeing test FANS OFF

40E 0 50 1024 4 1 ccdfast

Exp Mtr.	Seeing	~~Vane~~ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
40 Filter				CASS CCD	1800 l/m G=6100	30μm	6604 Å	3/4	FOCUS TEST	good focus	
								1			
								5			
20K		2.99	A0 I m					6	Telluric Std.	trailed for ½ of exp time	12.5K
								7			
								8			
5.3K	2"	5.11	F8 I					9	Std. Vel		8.4K
								10			
								11			
945	2-3"	8.98 - 9.47						12	Vnk Pop II Cepheid.	AV Peg nothing much here, Hd maybe shallow	1.6K
								13			
								1			
								14		cont'm ~ 13K hot pixel →	14.5K
	2"	7.60	F2 I	EEV CCD to GUIDER		above 30μm		—	SEEING TEST	Dome SW, no wind.. record high T earlier today 65% RH. on catwalk	
								—			

Pg #2

Date 1995 October 13/14 Observers Mki / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36349/50	INBOARD/OUTBOARD					0 31 W	+37°	Featr clear	50/60
51	BIAS (4)			20 51					—
52	COMP							"	60
53	HD216598	22 49 06	+37 23	20 57 39		0 37 E			420
54	"			21 06 13					"
55	"			21 13 32					"
56	"			21 20 51					"
57	"			21 28 11					"
58	"			21 35 30					"
59	"			21 42 49					"
60	"			21 50 09		0 15 W			"
61	COMP							Featr clear	60
62-64	FLAT x 3							Tung 1/4 Ap	9
65	BIAS (4)			22 05					—
66	COMP							Featr clear	60

CCD Spectr. Temp. −101.7°C Dome Temp./Hum. 18.4°C / 59.1% Transparency Conditions clear, kind of hazy... 12m

Focus 6.71 @ focus test FANS OFF

Spectr. Temp. ..... Dome Temp./Hum. ..... 408 0 50 1024 4 1 ccdfast

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
no filter very	nice focus			CASS CCD	1800 ℓ/mm G=5567	30μ	5892Å	3/4	FOCUS TEST	during top up with CCDT held @ −100°C; final version what top up.	
							±1Å	1	Vnk / Mki		
								5			
795	2"-3"	8.51 - 9.39	685μ + 685μ					6	Mki / Hdy	1st series. SW Lac S/N ~100:1	
740								"			
730								"			
715								"		AUTOGUIDED BY SBIG ST-4 NOW	
700								"			
580								"		refocused, image. star was off slit for a bit.	
reset 30s into 530								"			
540								"		a bit < 90:1 S/N	
								7			
"								8			13K → 12.2K
								1			
								9			

pg #3

Date 1995 October 13/14 Observers Mk [Hdq] Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Min. Sec.
cc36367	HD216598	22 49 06	+37 23	22 11 19					420	448
68	"			22 18 38					"	440
69	"			22 25 57					"	400
70	"			22 33 16					"	364
71	"			22 40 36					"	342
72	"			22 47 55					"	314
73	"			22 55 14					"	312
74	"			23 02 33		1 28 W			"	320
75	COMP							Fe-Ar clear	60	
76-78	FLAT x3					1 32 W	+ 38°	Tung Yellow	9	
79	BIAS(4)			23 15					—	
80	COMP							Fe-Ar clear	60	
81	HD216598	22 49 06	+37 23	23 19 11					420	375
82	"			23 26 30					"	453
83	"			23 33 49					"	442
84	"			23 41 08					"	42

Spectr. Temp. ..... Dome Temp./Hum. 16.9°C/64.0% Transparency Conditions clear with a bit of haze

Focus 6.71 FANS OFF 124

Spectr. Temp. ..... Dome Temp./Hum. ..... 408 0 50 1024 4 1 ccdfast

Exp. Mtr. no filter	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
448	3"	8.51-9.39	G688p +688p	CASS CCD	1800 ℓ/mm G=5567	30μm	5892Å	10	Mk. / Hdy	1st of 2nd series. SW Lac	
440								"			
400								"			
364								"			
342								"			
314								"			
312								"			
320								"		sky lines and sky bkg getting brighter as signal drops.	
								11			
								12			12.5K →12.1K
								1			
								13			
375	3-4"	8.51-9.39	G688p +688p					14	Mk. / Hdy	3rd series. SW Lac seeing deteriorating	
403								"			
442								"			
412						-		"		focused a bit	

pg#4

Date 1995 October 13/14 Observers Mki /[Hdy]/ Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36385	HD216598	22 49 06	+37 23	23 48 28					420
86	"			23 55 47					"
87	"			0 03 06					"
88	"			0 10 25		2 35 W			"
89	COMP							Fe4r clear	60
90-92	FLAT x 3					2 41 W	+38°	Tung ¼40	9
93	BIAS (4)			0 23					—
94	COMP							Fe4r clear	60
95	HD216598	22 49 06	+37 23	0 27 16					420
96	"			0 34 35					"
97	"			0 41 55					"
98	"			0 49 14					"
99	"			0 56 34					"
cc36400	"			1 03 53					"
01	"			1 11 13					"
02	"			1 18 32		3 44 W			"

CCD
Spectr. Temp. -101.6°C Dome Temp./Hum. 15.3°C / 71.6% Transparency Conditions ..hazy, waning to ¾ moon rising 12:6

Focus ..6.71.. FANS OFF

Spectr. Temp. ..... Dome Temp./Hum. ..... 408 0 50 1024 4 1 ccdfmt

Exp. Mtr. no filter	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
440	3"-4"	8.51 -9.39	688p +688p	CASS CCD	1800 Rl G=55567	304μ	5892 Å	14	Mki / Hdy	SW Lac 3rd series	
490								"			
535	3"							"			
580	3"							"		S/N ~ 60:1	
								15			
								16			11.8K → 11.2K
								1			
								17			
494	3"	8.51 -9.39	688p +688p					18	Mki / Hdy	4th series. SW Lac	
495								"			
295								"		Poorer seeing.	
400								"			
326								"		Fuzzy	
197								"		Clouds	
303								"			
406	4"-5"							"		S/N < 60:1	

pg #5

Date 1995 October 13/14 Observers Mki / [Hdg] / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 36403	COMP							FeAr clear	60
04-06	FLAT x 3							Tung ¼ Ap	10
07	BIAS (4)			1 35					—
08	COMP							FeAr clear	60
09	HD 216598	22 49 06	+37 23	1 40 15					420
10	"			1 47 34					"
11	"			1 54 53					"
12	but mostly sky & solar			2 02 13		4 30 W			"
13	COMP							FeAr clear	60
14-16	FLAT x 3							Tung ¼ Ap	10
17	BIAS (4)			2 21					—
18/19	INBOARD/OUTBOARD					(platform)	+38°	FeAr clear	50/60
20	COMP							"	60
21	HD 29139	4 30 11	+16 18 30	3 22 16		0 01 W			120
22	COMP							"	60
23	BIAS (4)			3 47					—

CCD
Spectr. Temp. −101.6°C Dome Temp./Hum. 14.1°C / 75.0% Transparency Conditions partly cloudy → increasing
Focus 6.71 Dome Temp./Hum. 13.9°C / 78.8% 128
Spectr. Temp. @ FOCUS TEST 408 0 50 1024 4 1 coadd ft

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm G-5567	30μm	5892 Å	19			
								20			~13K
								1			
								21			
322	4"	8.57 −9.39	683μ −685μ					22	Mki / Hdy	5th series SW Lac	
305								"			
254 if that many								"		clouds	
105 *								"		* thick clouds - all sky lines. & solar spectrum killed CCD's window & rebooted ACE'd(x2) before this comp.	
								23			
								24			125K
								1	"		
								5/6	FOCUS TEST	still very good. end of night, almost.	
								7			
1890	6"	0.85	K5 III					8	Std. Vel	α Tau through cloud/fog 2K (can actually see redshift from Na D lines (* vs. sky)	
				All to Mil and D:\				9			
								1			

pg #1 Mon/Tues

Date 1995 Oct 16/17 Observers [Blm/Vnk] Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC36424/25	Inboard/outboard	HARTMANN				00 18W		Fe Ar clear.	60/165
26	BIAS(4)								
27	Comp							Fe Ar clear	60s
28	HD177724	19 00 49	+13 42 53	18 20 47		0 40 W			88
29	Comp							"	60s
30	COMP							"	60
31	HD187691	19 46 14	+10 09 55	18 30 12		0 07 W			300
32	Comp							"	60
33	Comp							"	60
34	HD186265	19 37 54	+8 59 00	18 44 46		0 55 W			1772
35	Comp							"	60
36	BIAS(4)			19 17					—
37	Comp					—		"	60
38	BD+17 4572	21 19 21	+17 51 00	19 26 13		00 15 E			
39	Comp							"	60

CCD Spectr. Temp. ...−100.8...°C Dome Temp./Hum. 18.0°C 56%H Transparency Conditions ... Mostly clear 130

Focus ... 6.80 @ focus test

Spectr. Temp. ..... Dome Temp./Hum. ..... FANS ON 18h → mostly cloudy

chamber Only NE Fan by 18:30 404 max

Exp. Mtr.	Seeing	Fig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
OG560 Filter				CASSCCD	1800 l/mm G=6102	30μ	6604Å exactly	3/4	FOCUS TEST	404 0 50 1024 4 1 readout	
								1/2		402 0 50 1024 4 1 reading	
								5		Hot pixel on col 28 tonight with this CCD FMT	3.5K
6800	5-6"	2.99	AOV$_n$					6	Telluric Std	Air mass 1.16, trailed.	8K
								7			
								8			
3.7K	6"	5.11	~~F8V~~					9	Std Vel	Air mass 1.20 [>300/1 S/N]	7.5K
								10			
								11			
1105	4"?	8.43	B2V					12	Blu He star	Air mass 1.22 S/N ≈ 150:1	~2K
								13			
								~~1/2~~		CCD Temp −100.3°C	
								14			3.5K
500	5"	8.98 −9.47						15	Cepheid V+K	Some cloud Air mass = 1.12 [>100/1 S/N]	
								16			

pg#2

Emulsion Batches: .....

Date 1995 Oct 16/17 Observers [Bln/Vnk] Tn/Smt

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC3640 40/59	FLATS x 20					0000	−12°	Tung Hp 1/4	8sec
CG801 96/99	HD 207754	21 46 12	+43 25	20 20				4x	67ms
CG802 00/01	"				20 23	00 05E	89° Alt	2x	133ms
CC36460	Comp							Feat Clear	60s
61	BD+03 4437	20 45 11	+3 17	20 33 46		1 40 W			2000
62	Comp							"	60s
63	BIAS(4)			20 30*					—
64	COMP							"	60
65	HD 235679	21 55 00	+54 00	21 25 43		1 14 W			1400
66	COMP							"	60
67	BIAS(4)			21 53					—
68	COMP							"	60
69	IX Cas	23 59 42	+49 41	22 13 18		0 21 W			2940
70	COMP							"	60
71	BIAS(4)			23 05					—

CCD Spectr. Temp. −101.8°C Dome Temp./Hum. +6.5°C 62%/11 @ seeing test Transparency Conditions ... mostly cloudy ... 13.2

Focus ... 6.80 ...

Spectr. Temp. ... Dome Temp./Hum. ... chamber 4120 50 1024 4 1 ccd MAX ADU

Exp. Mtr	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm G=6102	306	6604Å	17ci			1.4K
	4-5"	7.32	K0 III	DEN CCD TV GUIDER	Above	306 a Slit			Seeing test	NE HAWAIN. DOME WEST medium gusty NW wind PART cloudy	
									" "		
								17			
994	6"	8.84 -9.59	G0-G5					18	Cepheid Vnk	TX Del	1.5K
								19			
								1		* taken before TX Del. and forgotten.	
								20			
614	5-6"	8.86	B2.5Ib					21	Bln Sp. Bin.	S/N ~ 110:1 @ cont'm Hα emission 3x continuum ↑ 1.04 airmass on end.	3.0K Hα
								22			
								1			
		~~H2 -H8 ~F7~~						23		cloudy break beforehand	
190		H2 -11.8 ~F7						24	Vnk Cepheid. Pop II	seems perhaps too faint But well identified in field	
								25			
								1			

pg #3

Date 1995 October 16/17 Observers [Blm/Vnk] Tm/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CG802 05	HD 3765 x4	00 35 18	+39 40						.067
CG80206/07	" x2				23 22	0 05 W	86° Alt		.133
CC36472	Comp							FeAr clear	60
73	HD3765	0 35 18	+39 40	23 25 37		00 21 W			760
74	COMP							"	60
75	Comp							"	60
76	Nova Cas 95	1995.7 01 04 55	+53 59	234827		00 24 W			1035
77	Comp							"	60
78	BIAS(4)			00 15					
79	Comp							"	60
80	Hebe	For JD 2450007.7021 02 14 58	-15 10 29	00 18 37		00 11 E			1309
81	Comp							"	60
82	Comp							"	60
83	Iris	JD 2450007.8 04 42 21	+27 24 47	00 50 27		02 01 E			1620
84	Comp							"	60
85	BIAS (4)								

CCD Spectr. Temp. −100.0°C ..... Dome Temp./Hum. 4.9°C / 68.7% Transparency Conditions . clear now, calming down...

Focus ..... 6.80 ..... (a bit) seeing test N FAN ON 134

Spectr. Temp. ..... Dome Temp./Hum. ..... 412 0 50 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
	4-5"	7.36	dk5	~~CCD~~ IV GUIDER "		about 30μm		—	SEEING TEST	Done W, light NW wind calming down, now.	
								—			
OG SEOFILE				CASS CCD	1800 l/mm G=6102	30μm	6604Å	26			
1730	5"	7.36	dk5					27	Std Vel.		3.5K
								28			
								29			
535	6"	8-9	e					6	FOR Vnk's student	which em ≈ 6520Å? eHα	10-7K
								7			
								1/2			
								8			
1400	10"	7-8	G2V					9	Minor Planet for Std Vel		2K
								10	Right on Magastar Field. Field Drawn too		
								11			3.5K
2065		8.0	G2V					12	minor Planet for Std Vel		
				note IRIS out of fig @			0442 36	#27	2716, not quite where megastar predicted		

135 pg #4

Date 1995 Oct. 16/17 Observers [illegible] T.w./Smt.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36486	COMP							FeAr clear	60
87	BD+03 601	4 19 17	+3 54	1 27 33		0 53 E			~~2100~~ 300
88	COMP							"	60
89	BIAS(4)								—
90/91	Inboard/outboard HARTMANN					0002W	+37 27		60/65
92/93	Inboard/outboard HARTMANN					00 10W	+37 27		20/40
94	Comp							FeAr clear	20s
95	HD 34656	5 1400	+37 2000	030851		00 24 E			1415
96	Comp							"	20s
97	BIAS(4)								—
98	Comp							"	20s
99	HD 37023D	05 30 23	-05 27 14	034733		0026W			296
cc36500	Comp							"	20
01	COMP							"	"
02	HD 37022C	5 30 22	-5 27 20	4 52 40		0049W			429
03	COMP							"	20

Spectr. Temp. ..... Dome Temp./Hum. +36°c / 71.6%H Transparency Conditions .. clear ..... +3.6

Focus .... 6.80 / .... 6.95 ....

Spectr. Temp. ..... Dome Temp./Hum. ..... 412 0 50 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	Pix/Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Bln 500 FILTER				CASSCCD	1800 bl/mm G=6102	30μm	6604A	14			
800	4"-5"	9.33 -10.2	A7					15	Vak Pop II Cepheid.	SW Tau	1.5K
								16			
								1			
								3/4	focus test Right on ⊕ Pix # 300		
BG 39 FILTER T=+2.7°c		Binning Set 695		CASSCCD	600 bl/mm @ 350m G=2680		4300Å	3/4	" "	465 0 50 1024 4 1 ccdfmt	
								5			
4370	5⅜"	6.81	07II	(f)				15c.	Bln O star	(7300Å S/N) seeing variable. Bad	
								16			6.80
								~~17~~			
								17			
⊙ 2000	5'-10"	6.78	09.5 V					18	Bln ⊙ star		3K
								19			
								20			
4500	5'-8"	5.13	Uoep(?)					21	Bln O-star		6K
								22			

13" pgs5 Mon/Tues

Date 1995 Oct 16/17 Observers [Bh] Ta/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36504	~~Comp~~ BIAS(4)			0502					—
05	COMP							Feat clear	20
06	HD47432	6 33 27	+1 42 03	5 07 39		00 09 W			925
07	COMP							"	20
08	"							"	20
09	HD48099	06 3637	+06 2625	5 2900		0024 W			748
10	Comp							"	20
11	Comp							"	20
12	HD 66141	7 5704	+02 3634	5 4730		0046 E			214
13	Comp							"	20
14-33	FLATS x20					0 44 E	+2°	TUNG clear	6
34	BIAS(4)			6 05					—
35/36	INBOARD/OUTBOARD					0 0	+18°	Feat clear	20/40

Spectr. Temp. -100.4°C Dome Temp./Hum. +20°C / 78.7% Transparency Conditions Fine

Focus 6.95 FANS OFF NOW.

Spectr. Temp. ____ Dome Temp./Hum. ____ 465 0 50 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	B Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG 39 FILTER				CASS CCD	600/5000 G-2650	250μ	4320A	1			
								23			
4200	6-8"	6.36	09.7Jb					24	Bln O-star		6.7K
								25			
								26			
3800	6-8"	6.33	07V					27	Bln O star		
								~~28~~			
								28			
4200	5"	V 4.39	K2IIIb	F2-05				29	Std vel		6.8K
								30?			
								2			15.7K 14.4K
								1			
								3/4	FOCUS TEST		

13 pg#1 T405/Med

Date 1995 Oct 17/18 Observers MKI / Tn / ..... MARK Visosky

Emulsion Batches: .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC365 37/38	Inboard/outboard	Hunt man		17 54				FeAr Clear	50/60
39	BIAS(4)								
40	Comp							FeAr Clear	60s
41	HD177724	19 00 49	+13 42 53	18 33 20		00 53W			30s
42	Comp							"	60s
43/45	FLATS x 3			At SW Loc position				Tung Ap 1/4	9sec
46	BIAS(4) after RESTARTING (Resetting) Hewlicon								
47	Comp							FeAr Clear	60s
48	HD216598	22 49 06	+37 23	18 57 26					420s
CC365 49/54	HD216598	"	"	19 06 46 →	19:50:23			6x	420s
55	Comp							FeAr Clear	60s
56/58	FLATS x 3							Tung Ap 1/4	9sec
59	BIAS(4)								
60/66	HD216598	22 49 06	+37 23	19 57 43 →	20 48 40	00 37E		7x	420s
67	Comp							FeAr Clear	60s

CCD
Spectr. Temp. -100.5°C Dome Temp./Hum. +10.0°C 60.0% Transparency Conditions Mostly clear 140
Focus G:83 to gradual clouding in.
CCD
Spectr. Temp. -102.0°C Dome Temp./Hum. c Lambda 412 050 MAX ADU

Exp. Mtr.	Seeing	Pol. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASSCCD	831 1/mm G=5.57	306	5889Å @ Aos 512	3/4	focus test		
											840
=4600		9.99	AOV						Telluric Std.		
									Restarted All because of typo in using "Repeat" command.		1084
								1/2			
							5889Å		SWLAC		
380	3"	8.57	GBV					4	Contact Bin	mAl/Hdg	
353, 360	3.4"	-9.39	+GBV					5	" "	Repeat SWLAC x6	
330, 346, 360, 390		"	"					6			
								7			1034
								1/2			
450, 490, 577, 590								8	Contact Binary	Repeat SWLAC x7	
620, 410	Cloudy							9		cloud at end	
390	Cloudy for last one										

14/pg42 Tues/Wed

Date 1995 Oct 17/18 Observers Mk./Tn. + Mark

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC36568	BIAS(4)								
69/71	FLATS x 3							TUNG Ap 1/4	9sec
72/75	HD216598	22 4906	+37 23	20 57 37	21 26 35	00 02 E		4x	420s
76/78	"	"	"	21 29 03	21 50 42	00 24 W		3x	420s
79	Comp							FeAr CHAR	60s
80	BIAS(4)						+37 54		
81/83	FLATS x 3							TUNG Ap 1/4	9sec
84/87	HD216598	22 49 06	+37 23	21 57 57	22 27	01 00 W		4x	420
88/90	"	"	"	22 28 26				3x	420
91	Comp							FeAr Char.	60s
92	BIAS(4)								
93/95	FLATS x 3							TUNG Ap 1/4	9s
96/99	HD216598	"	"	22 56 34	23 26			4x	420s
CC36600/02	"	"	"	23 26 32	23 48 40			3x	420s
03	Comp								
04	BIAS(4)								

CCD
Spectr. Temp. −102.0 C... Dome Temp./Hum. +10.0°C 64.5%H Transparency Conditions. Part... Cloudy..... 142

Focus ... 6:83.....

Spectr. Temp. ..... Dome Temp./Hum. ..... Clouds getting gusty gale warnings out. MAX 40K

Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASS CCD	1800 l/mm G=5567	300u	5889Å	1/2			
								10			
728, 700		8.51	G8Vp								
600, 440	3"5 - 9.39		+G8Vp					11	Contact Binary	Repeat x 4 clear now	
320, 300 400	4"6"	"	"					12			
								13			780
								1/2		-102.0°C CCD Temp	
								14			10.3K
520 500, 480 440,	4"6"							15		Dome seeing.	
332, 358 300	4"8"							16			
								17			800
								1/2			
								18			10K
160, 230 220, 260	5"-10"							19			
140, 100								20		65/1 S/N for cc 36602	
								21			

Pg#3 Tues/Wed

Date 1995 Oct 17/18 Observers Mki/ITn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc366 05/07	FLATS x 3								
08/11	HD 216598	22 4906	+37 2300	23 5641				4x	420s
12/14	"	"	"	00 2633				3x	420
15	Comp							FeAr Clear	60s
16	BIAS (4)								
17/19	FLATS x 3							TUNG Ap 1/4	9s
20/23	HD216598	"	"	00 5533	01 2430			4x	420s
24/26	"	"	"	01 2525	01 47			3x	420s
27	Comp							FeAr Clear	60s
28	BIAS (4)								
29/31	FLATS x 3							TUNG Ap 1/4	9s
32/34	HD216598	"	"	01 5412	D2 16	4 50W		3x	420s
35	Comp							FeAr Clear	60s
36	BIAS (4)								
37/39	FLATS x 3							TUNG Ap 1/4	9s

SCP Spectr. Temp. −101.0°C ..... Dome Temp./Hum. +11.1°C 54% H Transparency Conditions ..... Clearing again 1/4

Focus ..... 683 ..... To increasing cloud

Spectr. Temp. ..... Dome Temp./Hum. ..... 412 0 50 1024 4 1 CCD Font

Exp. Mtr.	Seeing	Pix Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASSCCD	1800 l/mm G-557	30u	5889 Å	21			9.6K
300 ~~250~~ 250, ~~242~~ 278, 300 290	approx 4"-7"	8.51 -9.39	G8V +68Vp					22	Contact Binary		
								23			
								24			890
								1/2			
								25			9.6K
157, 179 300, 285 180, 230 ~~267~~	4"5" 4"7"							26		Dark cloud..	
								27			
								28			
								1/2			
								29			10K
180, 165 110								30		1.70 Air mass	
								6			
								2			9.5K

145
pg#4 Tues/Wed

Date 1995 Oct 17/18 Observers mk, JTh

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC36640	Comp							Feat Clear	60s
41	HD 29587	04 34 30	+41 37 00	02 27 19		00 31 E			90s
42	Comp							"	60s
CG802 08/11	HD29587	"	"			.	86° ALT	4x	67ms
CG802 12/13	"	"	"			00 18 E		2x	133ms
~~43~~	Comp							Feat Clear	60s
44	HD41880	00 39 09	~~+47 41~~ 14	03 07 12		3 55 W			23s
45	Comp							"	60s
46	BHS K(4)								
47	Comp							"	60s
48	BM Cas	00 46 36	+63 33	03 19 49		4 00 W			40s
49	Comp							"	60s
50	Comp							Feat Clear	60s
51	BM Cas	00 48 36	"	03 34 02		4 20 W			73s
52	Comp							"	60s

Spectr. Temp. ..... Dome Temp./Hum. +11.3°C 55.3% H Transparency Conditions ... Part cloudy ... 1.46

Focus .... 6.83 ..... Gusty SW wind

Spectr. Temp. ..... Dome Temp./Hum. +11.3°C 57.9% H No Fans on tonight.

MAX

Exp. Mtr.	Seeing	Pg Mtg.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no Filter				CASSCCD	1200 l/mm G=5587	306μ	5889A	9			
1890	4½"	7.29	dG2					10	Stdvel		
		7.71	dG2	EEVCCD guider		ABOVE 306μ slit			Seeing test	Dome west. gusty	
		"	"	"		"			" "	SW wind.	
								13		Telescope East side	
5000	6"	4.54	B5U	e				14	Telluric Std	1.30 of Piers A.M. mass	10K
								17			
								1/2			
		8.87						18		Still East side	
260	5"	9.33						19		" "	
								21			
no Filter					1200 l/m G=6100	306μ	6600A	3			
510	5"	9						4			2K
								6			

162 pg# 5

Date 1995 Oct 17/18 Observers mk./Tm

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36653	Comp							Feh clear	60c
54	Nova Cas 95	010455	+53 59	03 53 39		4 24 W			"
55	Comp							"	60s
56	Comp HD87901	10 03 03	+62 27					"	60
57	~~HD4150~~	~~0 39 04~~	~~+44 44 14~~	04 18 15		4 20 E			70
58	Comp							"	60s
59	BIAS (4)								
60/68	FLATS x 9					0 0	-21°	TWG Ap 1/4	9s
69/70	In board / out board					0 0	+	Feh clear	60/65
71	BIAS (4)								

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ..P.C.B.T...cloudy.....

Focus ....6-83.....

Spectr. Temp. CCD —101.9 °C Dome Temp./Hum. +11.5°C 60% H

Exp. Mtr	Seeing	Filt. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CAS CCD	1800A G=600	30u	6600A	7			
155		9						8			
								9			
								13			
5000		454	BSIII e					"	Telluric Std.	2.25 Airmass	
								17			
								1/2			
								2			15-6k
+11.4		6-83 set						25/28	focus test		
								1/2			
						All to Perseus and D:\CDROM					

149 p941 Wed / Thurs

Date 1995 Oct 18/19 Observers [Bh. Vuk] T.n

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc366 72/73	Inboard/outboard			17 58		00 09 E	+4228	Fe Ar clear	60/60
74	BIAS(4)			18 03					
78	Comp → (Note, written later)							Fe Ar clear	60s
75	HD177724	19 00 49	+13 42 53	18 10 57		00 37 W			37
76 v	Comp							"	60s
77 v	Comp							"	60s
79	HD187691	19 46 14	+10 09 56	18 18 48		00 03 W			298
80	Comp							"	60s
81	BIAS(4)								
82	Comp							"	60s
83	HD186205	19 37 54	+08 59 00	18 39 48		00 59 W			1872
84	Comp							"	60s
85	BIAS(4)			≈1915					
86	Comp							"	60
87	BD+03 4437	20 45 11	+03 17 00	19 19 45		00 34 W			2001
88	Comp							"	60

CCD Spectr. Temp. −101.2°C Dome Temp./Hum. +13.5°C 61.0% Transparency Conditions Part Cloudy 150'

Focus 6.75

Spectr. Temp. ..... Dome Temp./Hum. ..... Clouds 412 0 50 1024 4 1 CCD Fwt

Exp. Mtr.	Seeing	Pt Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASS CCD	1800 l/mm G=6100	306	6600 Å	9/10	focus test		MAX ADU
								1/2			
								11			3.5K
7000		2.99	AOV					12	Tellaric Std	Air mass = 1.166	4.2K
								13			
								14			
4,650	3"	5.11	F8V					15	Std Sel		5.5K
								16			
								1/2			
								17			
7950	3"	8.43	BJV					18	Bln Hg star	>150/1 S/N some cloud	
								19			
								1/2.			
								20			
1550	3-4"	8.85 – 9.59	F8					21	Cepheid V&K	SBIG Autoguided TX Del	2200/1 S/N
								22			

18 pg#2 Wed/Thurs

Date 1995 oct. 18/19..... Observers [illegible]...T.....

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 36689	Comp							Ke Ar clear	60s
90	BD+17 4572	21 19 21	+17 51 00	20 00 32		00 37 W			1787
91	Comp							"	60
92	BIAS (4)			20 33					
93	Comp							"	60s
94	HD 214946	22 36 42	+44 29 00	20 39 51		00 20 E			598
95	Comp							"	60s
CG802 17/17	HD214946	"	"				ALT=87°	4x	67ms
CG802 18/19	"	"	"			00 15 E		7x	133ms
cc36696	Comp							Ke Ar clear	60s
97	IX Cas	23 59 42	+49 41 00	21 10 27		00 35 E			2902
98	Comp							"	60s
99	BIAS (4)			22 02					
cc36700	Comp							"	60s
01	HD182917	19 21 9	+50 02	22 14 50		04 27 W			335
02	Comp							"	60

CCD
Spectr. Temp. −100.5 °C Dome Temp./Hum. +10.7°C 63%H Transparency Conditions ..Mostly clear..... 1.5K

Focus ....6.75..... weak Aurora seen in far NORTH

Spectr. Temp. ..... Dome Temp./Hum. ..... MHX AIM

Exp. Mtr.	Seeing	Fix Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CA SCCD	~~300 l/mm~~ G=6100	30u	6600Å	23			
1500	3"	8.98 -9.47						24	Cepheid Unk	All Pos	
								25			
								1/2			
								26			3.2K
3600	2-4"	B 7.26	A5					27	SB Blz -	normally (Hz em seen) in far of telescope 4463Å	3.4K
								28		(But also a seeing test)	
		B 7.26	A5		ABOVE 30u SLIT				seeing test	Dome WNW,	~~3.5K~~
		"	"		"	"	"		" "	medium SE wind	
								29			3.2K
375	2-4"	11.2 -11.8	F7					12	Cepheid Unk	{>50/1 S/N} Positively identified.	
								13	SBIG @ 2.7	sec integration very effective	
								1/2	SBIG lost it	when seeing worsened.	
								14			
2000	6"	~8	~M6					15	CH Cyg	dbl peaked Hz em Air mass 1.39	5.5K
								16			

57 pg#3 wed / Thurs

Date 1895 Oct 18 / 19 Observers [Blk / Vn K] ... T.N. .....

Emulsion Batches:

.....

.....

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC36703	Comp							FeAr clear	60s
04	HD 267076	21 41 24	−02 40 00	22 30 09		02 19 W			
05	Comp							"	60s
06	Comp							"	60s
07	HD 235679	21 55 00	+54 00 00	22 43 21		02 32 W			956
08	Comp							"	60s
09	Comp							"	60s
10	HD 222368	23 34 48	+05 05 03	23 09 15		01 05 W			119
11	Comp							"	60s
12	Comp	JD 2450009.676						"	60s
13	Hebe	02 13 31	+15 26 03	23 25 30		00 55 E			1298
14	Comp							"	60s
15	Bills (4)			23 50					
16	Comp	JD 2450009.696						"	60s
17	Iris	04 42 55	+27 25 09	23 57 20		02 59 E			927
18	Comp							"	60s

CCD
Spectr. Temp. -100.5°C Dome Temp./Hum. 17.0°C 69%H Transparency Conditions Some cloud in SW
Focus 6.75
Spectr. Temp. Dome Temp./Hum. 17.9°C 74%H Aurora getting stronger
clouding

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no f. Hgr				CASSCCD	1800 l/mm G=6100	306	6600Å	17			
5600	5"	6.37	M7 I II					18	Std for	CHCyg	5.7K
								19			
								20			
900	4"	8.86	B2.5 Ib					21	S Bin Blm	A.M mass = 1.098	22K
								22			
								23			
7,600								24	Std Vel		4.8K
								25			
								13			3.7K
1600	6"	7.8	G2 V					15	Minor planet	(Right on monitor predicted) for Std Vel	1.3K
								16			
								112			
								17			
1550	5"	8.0	G2 V					18	Minor planet	(only ~~5~~ 15 seconds west of predicted) for Std Vel	
										Last time it was East of predicted.	

pg#4 Wed / Thurs

Date 1995 Oct 18/19 Observers [illegible] T.A.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 3679	Comp							Feat Clear	60s
20	BD+03 601	04 19 17	+03 54 00	00 20 03		01 47 E			2735
21	Comp							"	60s
22/41	FLATS x	20				01 40 E	+4°	Turks Apl/q	9s
42	BIAS(4)								
43/44	Inboard / outboard		Hartmann			0 0	+35	Feat Clear	60/60

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ... Part. cloudy ..... 15.6.

Focus ..... 6.75 .....

Spectr. Temp. ..... Dome Temp./Hum. +7.8°C ... 77.9% H

To completely so.

max

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
neither				CASSCCD	1200 l/mm G=6100	300u	6606Å	20			3-7
850	5⁴	9:33 - 10:2	A7					21	Capteid Unit	(> 70/1 S/N) SW Iau cloudy	#2
								22			
								23			15:4t
								1/2			
								30/31	focus test		
				All to Persons				D:1	CDROM 1 95 01 CASS		

pg #1

Date 1995 October 19/20 Observers [Bln]/Smt

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
C36745/46	INBOARD/OUTBOARD							FeAr clear	40/70
47	BIAS(4)			18 46					—
48	COMP							"	60
49	HD138629	15 28 12	+41 14 19	18 59 09		5 27 W			1500
50	COMP							"	60
51	COMP							"	"
52	HD148283	16 21 50	+37 37 18	19 32 46		5 02 W			1200
53	COMP							"	60
54	BIAS(4)			19 56					—
55	COMP							"	60
56	HD164577	17 56 41	+1 18 27	20 02 54		3 53 W			1030
57	COMP							"	60
58	COMP							"	"
59	HD164852	17 58 07	+20 50 00	20 28 24		4 21 W			1200
60	COMP							"	60

Spectr. Temp. ...10.4°C..... Dome Temp./Hum. 10.9°C/69.2% Transparency Conditions mostly cloudy w. thin all over. med. lum → strong E wind.
Focus .....6.88..... (@ FOCUS TEST → thinning late in page. 158
Spectr. Temp. ..... Dome Temp./Hum. ..... FANS OFF

Exp. Mtr.	Seeing BAD	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG 39 FILTER				CASS CCD	1800 l/mm G=4585	30μm	4462 Å	3/4	FOCUS TEST	4120 50 1024 4 1 ccdtest in focus new	← Sorry Jim.
							± 1 Å or less	1		4220 50 1024 41 ccdtest	
								5			
3343	5"-9"	B 5.09	A5V		S/N ~ 130:1			6	Bln A-shell	some cloud came here → very thick. very slow counts (relatively) most counts in 2nd ½ of exposure.	1.2K
								7			
								8			
3215	5"-9"	V 5.52	A5V		S/N ~ 125:1			9	Bln A-shell	slow counting, due to thin cloud, seeing & refr'n.	1.2K
								10			
								1			
								11			
2722	6"-8" → 10"	B 4.46	A1V		S/N ~ 115:1			12	Bln dbl line SB	seeing got awful, as telescope approached platform - partly obstructed on dome at end. increasing cloud here.	1.0K
								13			
								14			
4990	6"-8"	B 5.19	B3IV		S/N ~ 160:1			15	Bln SB4	some cloud for a bit. better transp. & seeing at end lost much of signal so cut short. Deep absorption lines? (3)	1.8K
								16			

pg #2

Date 1995 October 19/20 Observers [Bln]/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36761	BIAS(4)			20 54					—
62	COMP							Fe-Ar clear	60
63	HD172187	18 33 42	+43 08 12	21 01 08		4 29 W			1800
64	COMP							"	60
65	COMP							"	"
66	HD180316	19 11 06	+27 46 00	21 42 35		4 18 W			904
67	COMP							"	60
68	HD180316	19 11 00	+27 46 00	22 01 40		4 55 W			2000
69	COMP							"	60
70	BIAS(4)			22 37					—
71	COMP							"	60
72	HD192518	20 10 08	+28 23 30	22 47 05		4 28 W			1200
73	COMP							"	60
74	COMP							"	"
75	HD210459	22 05 33	+32 41 15	23 15 24		3 03 W			1300
76	COMP							"	60

Spectr. Temp. ~ -1 ..... Dome Temp./Hum. 10.5°C / 73.2% Transparency Conditions thin cloud & haze is clearing 1600 and coming back.

Focus .... 6.88 ..... FANS OFF Strong E wind now } no wonder Clouds moving fast to N } seeing is awful.

Spectr. Temp. ..... Dome Temp./Hum. ..... 422 0 50 1024 4 1 ccdtmt

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
BG 39 FILTER				CASS CCD	1800 l/mm G=4585	306μ	4462Å	1			
								17			
3300	6"-9"	B 6.40	F0V		S/N ~ 130 : 1			18	B/n SB2	some cloud nearer to end of exposure, seeing exploded too.	1.5K
								19			
								20			
497	8"-12"	B 6.64	B8		S/N ~ 40 : 1			21	B/n SB	long period SB (relatively) cloudy & very windy - cut short.	
								22			
1710	8"-12"	"	"		S/N ~ 105 : 1			23	B/n SB	2nd exposure once cloud left to increase S/N total.	400 done Dig
								24			
								1			
								25			
5100	6"-8"	B 5.36	A7IVn		S/N ~ 170 : 1			26	B/n A-shell *	seeing better up here. 1.6 air mass	1.7K
								27			
								28			
4480	6"	B 4.75	F5III		S/N ~ 310 : 1			29	B/n A-shell *	seeing & transparency much improved but still bad.	4.4K
								30			

pg #3

Date 1995 October 19/20 Observers [Bln] / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp. (s)
cc36777	BIAS(4)			23 40					—
78	COMP							Fe Ar clear	60
79	HD222368	23 34 48	+5 05 03	23 46 20		1 49 W			440
80	COMP							"	60
81	COMP							"	"
82	HD214946	22 36 42	+44 29	0 02 12		3 30 W			2000
83	COMP							"	60
CG80220-23	HD13013 x4	2 02 18	+43 59 07						.067s
24/25	" x2				0 46	0 14 W	87° Alt		.133s
cc36784	BIAS(4)			0 50					—
785-804	FLAT x20					4 00 W	+21°	Tung clear	22s
cc36805/6	INBOARD/OUTBOARD					0 02 E	+40°	Fe Ar clear	40/70

CCD
Spectr. Temp. -100.4°C Dome Temp./Hum. 9.6°C / 75.8% Transparency Conditions partly cloudy - windy ... 162
Focus 6.88 thin cloud all over
Spectr. Temp. ..... Dome Temp./Hum. 9.2°C / 79.3% @ end of seeing test FANS OFF
422 0 50 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
BG 39 FILTER				CASS CCD	1800 l/m G=4585	30μm	4462Å	1			
								5			
4670	6"-7"	V 4.13	F5V					6	Std. Vel.	a bit of cloud here.	1.8K
								7			
								8			
1000	5"?	B 7.26	A5	S/N ~ 70:1				9	Bln SB	some cloud, autoguided by SSG ST-4	
								10			
	8"	6.40R	G8III	REV CCD TV GUIDER		above 30μm		—	SEEING TEST	Done W, mod. E wind (calmer now) thin clouds all over, thicker wispy ones moving W now (N earlier)	
	"	"						—			
				CASS CCD				1			
								31		Done closed.	14.8K →12.7K
								3/4	FOCUS TEST		
		All to M & D									

pg #1

Date 1995 October 21/22 Observers [KK]/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce09959/60	INBOARD/OUTBOARD	Oct	20/21	while dome closed.		3 30 W	+20°	ThAr	3/4
ce09961/62	INBOARD/OUTBOARD					"	"	ThAr	3/3
63	BIAS(4)			21 29					—
64	COMP							ThAr	2
65	HD8890	1 22 34	+88 46 26	21 43 17		3 11 E			265
66	COMP							ThAr	2
67	HD8890			21 50 00					201
68	COMP							ThAr	2
69	BIAS(4)			22 08					—
70	BIAS(4)			2 19					—
71-73	FLAT x 3					3 20 W	+15°	Tung	2

Spectr.
Focus.
Spectr.
Exp. Mtr
444
14

Spectr. Temp. -100 °C ..... Dome Temp./Hum. 7.5°C / 77% (@ Focus test) Transparency Conditions (raining Oct 21/21) pt.ly.cloudy Oct 21/22

Focus .229 .....

Spectr. Temp. ..... Dome Temp./Hum. 6.6°C / 81.1% @ 1st 408840 exp.

Exp. Mtr	Seeing	Ptg. Mag.	Sp.	CCD Inst. ECHELLE	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				18.51	300 g/mm .580	60μ W 400μ H	6900 Å	1/2	FOCUS TEST	0 0 128 1024 8 1 T=14.4 F=.239	IN FOCUS.
				"	"	"	"	1/2	"	0 0 128 1024 3 1 T=7.5 F=.227	
								1		0 0 256 1024 4 1	
								3		cloudy in S now. (AD3/15771 an exp aborted)	
444		2.0	F8Tb					4	KK		5.8K
								3			
14		2.0	F8Tb					4	KK	some cloud now. clouded out.	200 above bias
								3			
								1		Dome closed.	
								1		raining.	
						60μ W 600μ H	c.205	5			15.4K

16 pg #1 Sun/mon

Date 1995 Oct 22/23 Observers [KK] TA / Scot

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE099 74/75	Inboard/Outboard Hartmann Test					02 W	+38 51	ThAr	3/2
76	BIAS(4)								—
77	Comp							ThAr	2s
78	ADS14363A HD201091	21 02 25	+38 15 27	20 01 42		0 59 W			1074
79	COMP							ThAr	2
80	ADS14363B HD201092	21 02 26	+38 15 14	20 21 37		1 32 W			1865
81	COMP							"	2
82	ADS14363A HD201091	21 02 25	+38 15 27	20 55 10		1 45 W			600
83	COMP							"	2
84	BIAS(4)			21 07					—
85	COMP							"	2
86	ADS15600A HD209790	22 00 54	+64 08 26	21 21 03		1 09 W			343
87	COMP							"	2
88	ADS15600B HD209791	22 00 54	+64 08 00	21 28 23		1 38 W			1608
89	Comp							"	2

CCD
~~Spectr~~. Temp. −100.4°C Dome Temp./Hum. +8.5°C 73%H Transparency Conditions ... Clearing ... 166.

Focus ... e 238 ...

Spectr. Temp. ... Dome Temp./Hum. +8.8°C 66%H

c Lambda

MAX A64

Exp. Mtr.	Seeing	~~Pix~~ Mag.	Sp.	Inst.	X Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				c-shelle CCD 18:51 HH	300 h/mm .580	60μ W 400μ H (1.236)	6300Å	12	focus test	0 0 128 1024 8 1 CCD FMT	
								1/2		0 0 256 1024 4 1 CCD FMT	
								3			
192	~4"	5.22 ~~4.80~~	KS V ~~A3m~~					4	kk Vis. Bin.		
								3			
121	4.5"	6.04	K7V					4	"		3.3K
								3			
100	5"	5.22	K5V					5	"		3.2K
								3			
								1			
	~~5~~	~~4.80~~	~~A3m~~					3			
156	5"	4.80	A3m					2	kk Vis Bin	S/N ~ 160.1 W one, brighter	2.0K
								3			
105	5-4"	5.30	~~A~~F7					6	"		1.5K
								3			

16" Rpg #2 Sun/Mon

Date 1995 Oct 22/23 Observers [E.K.] Tu/Sat

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce09990	ADS15600A HD 209790	22 00 54	+64 08 26	21 56 38		01 45 W			334
91	Comp							ThAr	2sec
92	~~COMP~~ COMP							"	2sec
93	HD 222368	23 34 48	+05 05 03	22 08 41		00 26 W			612
94	Comp							"	25
95	BIAS (4)								—
96	Comp							"	25
97	ADS16666A HD219916	23 14 31	+67 33 52	22 29 56		1 11 W			795
98	COMP							"	2
99	ADS16666B	"	"	22 45 33		1 53 W			2285
ce10000!	Comp							"	25
01	ADS16666A HD219916	"	"	23 26 36		2 06 W			624
02	COMP							"	2
03	BIAS (4)			23 39					—
04	COMP							"	2

Spectr. Temp. ..... Dome Temp./Hum. +8.7C 66.3% Transparency Conditions ... Fine 168

Focus ... 738 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

0 0 256 1024 4 1 --dust MAX ADU

Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	X Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
160	4"	4.80	A3m	echelle+CCD 18.5 +14	300 l/mm 5800	60µ 400µ	6300Å	2	KK Vis Bin		20K
								3			
								~~3~~ 2½			
200	5"	4.13	F7V					4	St/Hel		2.7K
								3			
								1/2			
								3			
163	5"	4.86	G8III					5	KK Vis Bin	much brighter and NE	3K
								3			
68	4"-5"	7.13	F6V					2	"	SW faint. HARD to separate pair	
								3			
184	4"-5'	4.86	G8III					5	"	much brighter and NE	
								3			
								1			
								3			

pg #3

Date 1995 October 22/23 Observers [KK]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr
ce10005	HD8890	1 22 34	+88 46 26	23 45 52		1 01 E			332	800
06	COMP							ThAr	2	
07	HD8890			23 52 44		0 53 E			361	965
08	COMP							"	2	
09	HD8890			0 00 15		0 46 E			322	795
10	COMP							"	2	
11	COMP							"	"	
12	ADS 48A HD38 (HD38A)	0 00 18	+45 16	0 12 50		2 26 W			1860	2
13	COMP							"	2	
14	HD38B? ADS48B	"	"	0 48 13		3 01 W			1858	5
15	COMP							"	2	
16	ADS48A HD38A	"	"	1 21 36		3 35 W			1853	5
17	Comp							"	2	
18	Bias(4)			1 54					—	
19	COMP							"	2	

CCD Spectr. Temp. -100°C Dome Temp./Hum. 8.7°C / 63.7% Transparency Conditions clear 170

Focus .238

CCD Spectr. Temp. -101.7°C Dome Temp./Hum.

0 0 256 1024 4 1 ccdtest

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	ADU Quality Index
800	5"	2.0	F8Ib	18.51	300 ℓ/mm .580	60μ N 40μ H	6300Å	2	KK		13.3K
								3			
965	4-5"	2.0	F8Ib					2	KK		15.7K
								3			
795		"	"					2	KK		12.6K
								3			
								3			
2	4"	8.94	dK6					4	KK Vis Bin	well separated (6") N one.	200 above bias
								3			
5	4"	9.04	dM0					5	"	well separated, windy through. S one.	300 above bias
								5			
5	4"	8.94	dK6					4	"	N one again	300 above bias
								3			
								1/2			
								3			

pg #4

Date 1995 October 22/23 Observers [KK]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
Ce10020	ADS2122A HD17332A	02 41 48	+18 59	2 01 19		01 35 W			1997
21	Comp							ThAr	2sec
22	(HD17332B?) ADS2122B	"	"	02 36 49		02 12 W			2086
23	Comp							ThAr	2s
24	HD17332A	"	"	03 14 02		02 41 W			1553
25	Comp							ThAr	2s
26	BIAS (4)			03 41					
27	Comp							"	2s
28	IRis	@ 30 60013.847 04 43 32 +27 17 43		03 48 46		01 19 W			1551
29	Comp							"	2s
30	Comp							"	2s
31	ADS5559A HD50635	06 49 00	+13 18 18	04 20 44		00 37 E			519
32	Comp							"	2s
33	HD50635B ADS5559B	"	"	04 31 06		0 01 E			2070
34	Comp							"	2s
	~~BIAS (4)~~								

CCD
Spectr. Temp. -100.4°C Dome Temp./Hum. 7.6°C/65.6% Transparency Conditions clear, haze on horizon

Focus 238

Spectr. Temp. Dome Temp./Hum.

172

0 0 256 1024 4 1 ccdfwt.

Exp. Mtr.	Seeing	V Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
40	3-4"	7.40	dF9	18.51	300 ℓ/m .580	60μW 400μH	6300Å	2	KK Vis Bin	brighter and SE	650 ABOVE BIAS
								3			
14	3-4	8.20						6	"	Slightly hard to separate	>300 Above Bias
								3			
18	4-6"	7.40	dF9					2	"	seeing getting very poor	350 above
								3			
								1/2			
								3			
10	4-6"	7.9	G2V					2	Minor Planet for Std release		300 above
								5			
								3			
160	4"	7.74	F0Vp					4	KK Vis Bin	Brighter NW one	
								3			
17	3-4"	7.68	G6V					5	"		
								3			

123 pg#5 Sun/Mon

Date 1995 Oct 22/23 Observers [K.K.]/Th./Smt.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10035	ADS5559A HD50635	06 49 00	+13 18 18	5 08 06		0 10 W			505
36	COMP							ThAr	2
37	BIAS(4)			5 18					—
38	COMP							"	2
39	HD62509	07 39 12	+28 16 04	05 ~~29~~ 17		0 28 E			~~7~~ 57
40	Comp							"	2
41	COMP							"	2
42	ADS6650 ~~A~~ AB HD68257	8 06 29	+17 56 58	5 49 36		0 27 E			422
43	COMP							"	2
44	ADS6650 ~~B~~ C HD68255	"	"	5 58 04		0 13 E			646
45	COMP							"	2
46	ADS6650 AB HD68257	"	"	6 10 11		0 07 E			371
47	COMP							"	2
48	BIAS(4)			6 18					—
49–55	FLAT x 7					2 00 W	+18°	Tung	2
56/57	Inboard / Out Board					"	"	ThAr	3 1/2

CCD Spectr. Temp. -100.5°C Dome Temp./Hum. 7.1°C / 75.6% Transparency Conditions clear 17.4

Focus 1.238

Spectr. Temp. ..... Dome Temp./Hum. .....

0 0 256 1024 4 1 ccdtest

Exp. Mtr.	Seeing	Plate Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
168	3-4"	4.74	FOV_p	Echelle 18.5 l	300 l/mm. .580	60μ 400μ	6300Å	4	KK Vis Bin	brighter & NW again.	2.9K
								3			
								1			
								3			
~~30~~ 540	3-4"	1.14	KOIIIb					2	Std. Vel	β Gem saturated 1st 2 attempts	15.6K
								3	Dome started to warm -94°C @ 05:34		
								3		Topped up beforehand.	
86	3"	5.05	F8V ~~G5V~~ from BSC					4	KK Vis Bin	brighter and W can't separate AB	2K
								3			
<80	3"	6.20	G0V					5	KK Vis Bin	HD68256 also at ~~prior~~ of the ~~other 2 used~~. fainter CE	1.5K
								3			
70	3"	5.05	?					4	"	brighter again. Sun coming up soon	
								3			
								1			
						60μW 600μH		2			15.8K ⇒
+6.8°C						400μH		7/8	focus test	0 0 128 1024 8 1 CCDFast	

pg#1 Mon/Tues

Date 1995 October 23/24 Observers [KK]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10058/59	INBOARD/OUTBOARD			~~=1735~~		2 28W	+19 12	ThAr	3/2
60	BIAS(4)								—
61	COMP							ThAr	2
62	ADS11046A HD165341A	18 00 24	+2 31 22	18 11 04		2 07 W			663
63	COMP							"	2
64	ADS11046B HD165341B			18 23 37		2 39 W			1840
65	COMP				23 55 35			"	2
66	ADS11046A HD165341A			18 56 39	23 56 39	2 52 W			630
67	COMP wrong Time?				00 08 31			"	2
68	BIAS(4)			19 09					—
69	COMP							"	2
70	ADS13256A	19 56 42	+10 28	19 18 12		1 38 W			1815
71	COMP							"	2
72	ADS13256B			19 50 59		2 12 W			1889
73	Comp							"	2

CCD Spectr. Temp. −100.2°C Dome Temp./Hum. +12.1°C / 7008/11 Transparency Conditions clear → hazy 17.6

Focus 238

CCD Spectr. Temp. −100.7°C Dome Temp./Hum. 10.8°C / 70.0% @ 10070

Exp. Mtr.	Seeing	Pg Mag	Sp.	CCD Inst ECHELLE	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	pretty stable			18.51	300 l/mm .580	30μ	6300Å	7/8	Focus TEST	0 0 128 1024 8 1 ccdflat	
								1		0 0 256 1024 4 1 ccdflat	
								3			
184	3"	4.20	K0 V					5	KK Vis Bin	brighter and N	3.5K
								3			
48	3"	5.99	K4 V					4	"	fainter and S	3.0K!
								3			
132	4"	4.20	K0 V					5	"	brighter and N again	2.5K
								3			
								1			
								3			
12	3"	7.60	F2					2	KK Vis Bin	sl. brighter and S easily separable.	600 above b/g
								3			
15	3-4"	7.80	? easily					6	"	sl. fainter and N still well separated.	300 above b/g
								3			

1m pg#2 Mon/Tues

Date 1995 October 23/24. Observers [KK] Tn/Sm

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	
ce10074	ADS13256A	19 56 42	+10 28	20 23 49		02 44W			1860	70
75	COMP							ThAr	2s	
76	BIAS(4)			20 56						
77	Comp							"	2s	
78	HD197913A ADS14270A	20 41 36	+15 33 00	21 01 31		02 32W			1561	13
79	Comp							"	2s	
80	ADS 14270B			21 29 01		03 03W			1765	5
81	Comp							"	2s	
82	HD197913A ADS14270A			21 59 57		03 30W			1528	13
83	Comp							"	2s	
84	BIAS(4)									
85	Comp							"	2s	
86	HD 197964 ADS14279A	20 42 01	+15 45 50	22 32 57		03 45W			455	20
87	Comp							"	2s	
88	HD197963 ADS14279B	20 42 00	+15 45 49	22 42 00		04 08 W			1229	13

CCD Spectr. Temp. -100.7°C Dome Temp./Hum. 10.2°C / 72.4% Transparency Conditions . clear . to . hazy 17.8

Focus 238

Spectr. Temp. . . . . Dome Temp./Hum. . . . . cloudy 0 0 256 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	N Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
10	3-4"	7.60	F2	18.51	300 ℓ/mm .580	60µ W narrow H	6300Å	2	KK Vis Bin		
								3			
								1/2			
								3		400 Above B/G level (7 Pixel separation) Is this one the Dbl line gray separation sure is tiny way	
13	<3"	7.50	K0					4	KK Vis Bin		SB? Yes
								3			
5		8.20						5	KK Vis Bin		300 Above
								3			
13		7.50	K0					4			
								3			
								1/2			
								3			
120	5"	4.50	K1 V					2	KK Vis B/G	brighter & W huge separation even with the bad seeing.	2.6K
	4"							3			
131	5"	5.50	F7 V					5	"	fainter & E	2.6K

pg #3

Date 1995 October 23/24 Observers [KK]/Tn/Snt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mir.
ce10089	Comp							ThAr	2	
90	AD5142794 HD197964	20 42 01	+15 45 50	23 03 52		4 16 W			478	'00
91	Comp							"	2	
92	BIAS(4)			23 13					—	
93	COMP							"	2	
94	HD 206778	21 39 16	+9 24 59	23 19 59		3 30 W			186	380
95	COMP							"	2	
96	HD 206778			23 24 17		3 38 W			361	5.5
97	COMP							"	2	
98	HD 206778			23 31 53		3 43 W			240	304
99	COMP							"	2	
ce10100	Comp							"	"	
01	HD 222368	23 34 48	5 37 09	23 40 32		2 00 W			470	133
02	COMP							"	2	
03	COMP for HD88510							"	"	

Spectr. Temp. -100 Dome Temp./Hum. 9.2°C / 77.2% Transparency Conditions clear / hazy 180

Focus .238

Spectr. Temp. ..... Dome Temp./Hum. .....

0 0 256 1024 4 1 ccdfmt

Exp. Mtr	Seeing	V Mag	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				18.51	300 ℓ/mm .580	60μm W 900μm H	6300 Å	3			
100	5"	4.50	K1 V					2	kk Vis & n	brighter and W again.	
								3	Note HD213052 clocked and		
								1	Found too difficult to separate	Tonight.	
								3			
380	4-5"	2.39	K2 Ib-II					6	kk / Std. Vel		10.2K
								3			
565		"	"					6	"	a bit long, ogs.	14.4K
								3			
304		"	"					6	"	counts slewed @ end	7.8K
								3			
								3			
133		4.13	F7 V					4	Std. Vel.		2K
								3			
								3			

pg # 4

Date 1995 October 23/24 Observers [kk]/Tn/Smt

Emulsion Batches: .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10004	HD8890	1 22 34	+88 46 26	23 54 03		0 49 E			300
05	COMP							ThAr	2
06	HD8890			00 00 21					273
07	COMP							"	2
08	HD8890			00 06 13		0 37 E			288
09	Comp							"	2
10	BIAS (4)			0 14					—
11	COMP							"	2
12	ADS671A HD4614A	0 43 03	+57 17 06	0 19 11		1 25 W			240
13	COMP							"	2
14	ADS671B HD4614B	"	"	0 24 45		1 56 W			1740
15	COMP							"	2
16	ADS671A HD4614A	"	"	0 55 38		2 02 W			265
17	COMP							"	2
18	COMP for HD209402							"	"

CCD Spectr. Temp. -101.7°C Dome Temp./Hum. 9.0°C / 78.9% Transparency Conditions hazy 18.2

Focus .238

Spectr. Temp. ..... Dome Temp./Hum. .....

0 0 256 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
656	~4"	2.0	F8Ib	18.51	300 ℓ/mm .580	69 W 400mM	6300 Å	5	KK		10.5K
								3			
670		"	"					5	"		9.4K
								3			
680		"	"					5	"	saturated cosmic ray between orders.	10 K
								3			
								1			
								3			
220	4"	3.45	G0V					2	kk Vis Bin	much brighter and SE 3.4K ADU max	hot pixel 5.7K
								3			
22	3-4"	7.51	K7V					6	"	much fainter and NW	1.2K
								3			
208	4"	3.45	G0V					2	"		2.7K
								3			
								3			

pg #5

Date 1995 October 23/24 Observers [KK]/Tn/Smt

Emulsion Batches: .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10119	HD20902	3 17 11	+49 30 19	1 07 14		0 24 E			120
20	COMP							ThAr	2
21	HD20902			1 10 49		0 19 E			180
22	COMP							"	2
23	HD20902			1 14 57		0 15 E			170
24	COMP							"	2
25	BIAS(4)			1 19					—
26	COMP							"	2
27	ADS 2081A HD16895A	02 37 22	+48 48 20	01 24 01		0036 W			293
28	Comp							"	2
29	HD16895B ADS2081B			01 31 47		01 09 W			1797
30	Comp							"	2
31	ADS 2081A HD16895A			02 05 47		01 20 W			432
32	Comp							"	2
33	BIAS (4)			02 14					

CCD
Spectr. Temp. -102.0°C Dome Temp./Hum. 8.7°C/81.2% Transparency Conditions clear → hazy, some thin clouds every once in a while

Focus 238

Spectr. Temp. Dome Temp./Hum.

184

0 0 256 1024 4 1 ccd last

Exp. Mtr	Seeing	√ Pg. Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
630	3"	1.79	FSIb	18.51	300 ℓ/mm .580	60μ W 400μ H	6300Å	4	KK	α Per, var?	8.5K
								3			
910		"	"					4	KK	α Per	11.4K
								3			
1008		"	"					4	KK	α Per	13.8K
								3			
								1			
								3			
210	3-4"	4.13	F7V					5	KK Vis Bin	Brighter SE of pair	3K
								3			
0	<3"	9.87	M1V					6	"	good separation	150 Above
								3	Almost? looks like a faint object of Faint Stars Maybe scattered	6" SSE From Bright component	
940	4"	4.13	F7V					5	"		3.2K
								3			
								1/2			

Spg #6 Mon / Tues

Date 1995 Oct 23/24 Observers [illegible] / Tu / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
Ce10134	Comp							Th Hr	2s
35	HD22484	03 31 46	+00 05 04	02 26 37		00 54 W			752
36	Comp							"	2s
37	Comp							"	2s
38	ADS 2644A HD22468A	03 31 39	+00 15 41	02 44 16		01 17 W			1063
39	Comp							"	2s
40	HD22468B ADS2644B			03 03 41		01 49 W			1800
41	Comp							"	2s
42	ADS2644A HD22468A			3 35 51		2 11 W			1200
43	COMP							"	2
44	BIAS(4)			4 02					—
45	COMP							"	2
46	ADS5983A HD56986A	7 14 09	+22 10 00	4 13 36		1 11 E			211
47	COMP							"	2
48	ADS5983B HD56986B			4 18 46		0 37 E			1940

Spectr. Temp. ao −100.6°C Dome Temp./Hum. +3.5°C / 82.0%H Transparency Conditions .. slightly hazy 186

Focus .....238.....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Pic. Mag. ✓	Sp.	Inst. CCD	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				echelle 1851	300ℓ/mm T 1.580	60-100μ W/M	6300Å	3	Note HD 25893 checked & Found Too difficult to separate.		
200	5"	4.28	F9 IV-V					2	Std Vel		3K
								3			
								3			
55	3"-5"	5.78	G9V					4	KK Vis Bin		
								3			
0	3"-4"	8.73	K6V					5	"	tough to keep A off slit. perhaps some contamination from A	200 above bias level
								3			
34	5"	5.78	G9V					4	"	brighter & E seeing is worse now.	1.2K
* Note. next night - I see that file ce10143 is small (.256ℓ/mm) = no good Tn								3		* GPIB errors prevented this from happening right away. Reset 486 ACER & CC200 after comp was w/ 4 flats & Bias done after resets but the damage was done.	
								1			
								3	Note HD 3701.3 checked and found to be COMPLETELY necessary for N-S echelle slit.		
260	4"-5"	3.55	F0V					4	KK Vis Bin	much brighter and NE	3.5K
								3			
0	4"	8.18	K3V					5	"	MUCH thunder and SW	>600 ADUs above bias

1895 #7

Date 1995 October 23/24 Observers [KK] / Tn / S mot

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10149	COMP							ThAr	2
50	AD55983A HD56986A	07 14 09	+22 10 00	04 52 35		0 30 E			309
51	Comp							"	2
52	BIAS(4)			4 59					—
53	COMP							"	2
54	HD62509	7 39 12	+28 16 04	5 17 44		0 33 E			90
55	COMP							"	2
56	HD62509			05 21 14		0 31 E			60
57	Comp							"	2
58/64	FLATS x 7					2 31 W	+28°	TUNG	2
65/66	Inboard / outboard					"	"	ThAr	3/2

CCD Spectr. Temp. −99.2C Dome Temp./Hum. +8.0°C 81.2%H Transparency Conditions ..still clear.....188...

Focus .....238..... @ top of page

Spectr. Temp. ..... Dome Temp./Hum. ..... & focus test.

0 0 256 1024 4 1 ccdfmt.

Exp. Mtr.	Seeing	Pix/Mtg.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				18.51	300 l/mm -580	60μ W 400μ H	6300Å	3			
228	4-5"	355	FOIV					4	Ark Vis Bin		3.2K
								3			
								1		Dewar just starting to warm up −99°C	
								3		Topup complete by 0510	
560		1.14	KOIII6					6	Std Vel		12.5K
								3			
650		"	"					6	"		8.8K
								3			
						60μ W 600μ H		2			16.2K max
								7/8	FOCUS TEST	right in focus CCD FMT 0 0 128 1024 8 1	
				All to M: & D:							

Wed / Tues

Date Oct ~~25~~ 25/26 Observers [KK] / Tn. / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc10167/68	INBOARD/OUTBOARD							ThAr	3/2
69	BIAS(4)								
~~70~~	Comp — ~~didn't get written~~.			Restarted due to	CCD3 glitch? or TO glitch, Smt's.			ThAr	2s
71	HD146361	16 10 56	+34 0642	18 ~~46~~ 40		4 37 W			~~392~~ 393
72	Comp							"	2s
73	HD146362			18 ~~39~~ 55 ~~51~~ 18		4 53 W			830
74	COMP							"	2s
75	HD146361			19 11 43		5 01 W			356
76	Comp							"	2s
77	Comp							"	2s
78	HD173607	18 41 0f	+39 30 29	19 24 55		2 46 W			430
79	Comp							"	2s
80	HD173608	"	"	19 33 37		2 57 W			554
81	Comp							"	2s
82	HD173607			19 44 37		3 06 W			460
83	COMP							"	2

CCD ~~Spectr~~. Temp. -100.6°C Dome Temp./Hum. 7.8°C / 64.7% Transparency Conditions clearing 19.0

Focus 238

Spectr. Temp. Dome Temp./Hum.

SLIT N/S Tonight

c Lambda

Exp. Mtr.	Seeing	Fil. Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				18.51	300 ℓ/mm .580	60μ W 400μ H	6300Å	1/2		CCD Font 0 0 178 1024 8 1	
								1/2		CCD Font 0 0 256 1024 4 1	
								3			
~~28~~	3"	5.58	GOV					4	KK Vis Bin	NE brighter one.	~1K max
								3			
28	3"	6.59	G1V					5	"	SW fainter one	same as A
								3			
32		5.58	GOV					4	"	NE brighter again	
								3			
								3			
68	2.3"	5.23	A8Vn					6	KK Vis Bin	well separated West of pair ~3.5K summed middle order over 7 columns	max 1.5K
								3			
87	2"	5.47	F0Vn					5	"	East one great separation	same as A
								3			
75	2"	5.23	A8Vn					6	"	west one	same as A & B
								3			

pg #2 Wed / Thurs

Date 1995 October 25/26 Observers [kk] / Tn / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10184	BIAS(4)			~~20~~					—
85	COMP							ThAr	2
86	ADS11632A HD173739	18 41 42	+59 29	20 09 13		3 47 W			1300
87	COMP							ThAr	2
88	ADS11632B HD173740	18 41 42	+59 29	20 34 03		4 25 W			2100
89	COMP							"	2
90	ADS11632A HD173739			21 10 52		4 40 W			787
91	COMP							"	2
92	BIAS(4)			21 26					
93	Comp							"	2s
94	ADS15600AB HD 209790	22 00 54	+64 08 26	21 32 34		1 33 W			343
95	Comp							"	2s
96	ADS15600C HD 209791	"	"	21 39 47		W			128
97	Comp							"	2s
98	ADS15600AB HD 209790	"	"	22 02 53		2 04 W			359
99	COMP							"	2

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. 6.8°C/68.4% Transparency Conditions partly cloudy, mostly to the S...

Focus .....238.....

Spectr. Temp. ..... Dome Temp./Hum. .....

192

0 0 256 1024 4 1 ccdtest.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				tilt 18.5	300 l/mm .580		6300 Å	1			
								3			500 1000
13	2-3"	8.90 ~~dM4~~ dM4						4	kk Vis Bin	N and slightly W AND definitely brighter, ~~[illegible]~~ ~~[illegible]~~ into. ~~[illegible]~~	~~[illegible]~~ sum 8 cols on middle order.
								3			
13	2-3"	9.69 ~~dM5~~	dM5					2	"	S and slightly E and FAINTER.	400 ADD sum 8 cols on middle order.
								3			
5	2"-3"	8.90	dM4					4	"	N and brighter again. ended by limit of host	½ stack of B.
								3			
								1			
								3			
90	3"	4.80	A3m					5	kk Vis Bin	Brightest star one	MAX 1.5K
								3			
63	2-3"	5.30	dF7					2	"		1/K
								3			
102		4.80	A3m					5	"		
								3			

pg # 3

Date 1995 October 25/26 Observers [kk]/Tn/Smt

Emulsion Batches: .....

.....

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	
ee10200	Comp							ThAr	25	
01	ADS15270A HD206826A	21 39 40	+28 17 27	22 16 23		2 36 W			284	55
02	COMP							"	2	
03	ADS15270B HD206826B			22 24 42		2 50 W			644	54
04	COMP							"	2	
05	ADS15270A HD206826B			22 37 01		2 57 W			336	55
06	COMP							"	2	
07	BIAS(4)			22 44					—	
08	COMP							"	2	
09	HD206778	21 39 16	+09 24 59	22 51 32		3 09 W			180	155
10	Comp							"	2	
11	HD206778			22 56 07		3 14 W			182	277
12	COMP							"	2	
13	HD206778			23 00 46		3 18 W			160	273
14	COMP							"	2	

Spectr. Temp. ..... Dome Temp./Hum. 5.8°C / 74.7% Transparency Conditions . bit. hazy 196

Focus ..... 4.238 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

0 0 256 1024 4 1 ccdfmt.

Exp. Mtr.	Seeing	~~Mag~~ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality AMO
							6300 Å	3			
55	2"	4.78	FTV					4	KK Vis Bin	~2" separation - tough but possible. brighter and SE	4000 sec over 8 cats in middle order.
								3			
54	2-3"	6.09	?					5	"	challenging faint NW more lines than the FTV.	Same as above.
								3			
55	2-3"	4.78	FTV					4	"	brighter SE again.	same as above.
								3			
								1			
								3			
255	3"	2.39	K2V6-II					6	KK pgm	Std vel, too	9.0K max.
								3			
277	3"	"	"					6	"	Std. vel, too	11.5K max.
								3			
263	3"	"	"					6	"	Std. vel too.	
								3			

155 P9#A Wed / Thurs

Date 1995 Oct 25/26 Observers [Irk] / Tu / Smat

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE 10215	Comp							Thar	2s
16	HD 222368	23 34 48	+05 05 03	23 08 37		01 37 W			558
17	Comp							"	2s
18	Comp							"	2s
19	ADS 16158A HD 12447A	1 56 52	+2 16 51	23 23 43		0 35 E			267
20	COMP							"	2
21	ADS 16158B HD 12447B			23 30 33		0 24 E			500
22	COMP							"	2
23	ADS 16158A HD 12447A			23 40 36		0 18 E			245
24	COMP							"	2
25	BIAS (4)			23 45					—
26	COMP							"	2
27	ADS 1860A HD 15089A	2 20 49	+66 57 11	23 56 40		0 26 E			440
28	COMP							"	2
29	ADS 1860B HD 15089B			00 06 45		0 08 E			940

CCD Speed
Focus
Spectr.

Exp Mtr
150
73
74
83
40
40

CCD
Spectr. Temp. -99.8°C Dome Temp./Hum. 5.3°C 78.7% Transparency Conditions Slightly hazy 196

Focus ...238.....

Spectr. Temp. ..... Dome Temp./Hum. ..... 0 0 256 1024 4 1 ccdftsmax

Exp. Mtr	Seeing	Plu Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				0.1mm/A 18.51	300 l/mm 1580	60μ W 400μ H	6200Å	3			
150	2"	4.13	F7V					2	Std Vel		B-4K
								3			
								3			
73	2"-3"	4.18	A0p					4	KK Vis Bin	brighter and E	4800 sum over 8 cols in middle order
								3			
74	3"	5.21	A3m					5	"	tough to separate. faint E & W, sometimes 2 are as one.	~5.6K sum over same 8 cols
								3			
83	3"	4.18	A0p					4	"	brighter and E	same as B
								3			
								1			
								3			
40	3"	4.64	A5Vp					6	KK Vis Bin	close 2"-3" separation - brighter and NE one. 3rd star (c?) to SE ~5" away.	3.5K sum over 10 cols in middle order
								3			
40		6.89	F5					2	"	fainter SW of 2 close. sl. stronger esp. Ykpan A pretty close in # of lines. contaminated?	~3.8K sum over same

pg #5

1995

Date 1995 October 25/26 Observers [KK]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10230	COMP							ThAr	2
31	ADS1860A HD15089A	2 20 49	+66 57 11	0 26 22		0 03 W			386
32	COMP							ThAr	2
33	ADS1860C? HD15089C?			0 36 00		0 34 W			1660
34	COMP							ThAr	2
35	BIAS(4)			1 08					—
36	COMP							"	2
37	HD8890 A	1 22 34	+88 46 26	1 16 27		0 57 W			180
38	COMP							"	2
39	HD8890 A			1 20 49		1 03 W			240
40	COMP							"	2
41	HD8890 A			01 26 45		1 08 W			240
42	Comp							"	2
43	HD8890A			01 3307					40s
44	Comp							"	2

Spectr. Temp. ..... Dome Temp./Hum. 53°C/81.4% Transparency Conditions ..hazy..... 198

Focus .....238.....

Spectr. Temp. ..... Dome Temp./Hum. +50°C 82.2% 0 0 256 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	Pfg. Mag.	Sp.	CCD Inst. ECHELLE	γ Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				t.it 18.51	300 l/mm .580	6μW 400μH	6300 Å	3			
75	3"	4.64	A3Ip					6	kk Vis Bin	brighter NE again. counted faster!	Stronger than other 2
								3			
~~stopped~~ stopped rising and no counts as a result	3"-2"	~8?	late type.					4	"	~5" SE of AB close pair just in case.	⅓ strength of others
								3			
								1		Very noisy	
								3		Telescope East+Side now	
470	2"-3"	2.5?	F8Ib					5	kk		max 9.5k
								3			
560		"	"					5	kk		10.5k
								3			
497		"	"					5	kk		9.7k
								3			
71								5	kk Vis Bin	Intended weaker to go with exposure of HD8890B	1.8k
								3			-

1911 pg#6 Wed / Thurs

Date 1911 Oct 25/26 Observers [K K] J.n. / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
Ce10245	HD8890B	1 22 34	+88 46 26	1 36 38		1 39 W			1422
46	Comp							ThHr	2s
47	HD8890A			020332					48
48	Comp							"	2s
49	Comp							"	2s
50	HD20902	03 17 11	+49 30 19	021048		0 48 W			121
51	Comp							"	2s
52	HD20902	"	"	021424					105
53	Comp							"	2
54	HD20902	"	"	021729					113
55	Comp							"	2
56	Comp							"	2
57	HD62509	07 39 12	+26 16 04	022710		3 17 E			113
58	Comp							"	2
59	HD62509	"	"	023410				4	72s
60	Comp							"	2

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ... Sl. Hazy ..... 200...

Focus ...: 235 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

N/S Slit tonight of course.

Ebrable

Exp. Mtr	Seeing	Fil. Mag	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
0	<2"-3"	9	earlier types F	echelle 1851	316 lines/mm .580	60μ 400μ	6300	6	KK Vik Ben.	end of when seeing got poor	450 sum above 4/9 order 9 sob in available order
								3			
68		1.9	F8Ib					5	"		
								3			
								3			
326	3-4"	1.79	F5Ib					4	KK Sky	Tel also East side	
								3			
320		"	"					4	"		7K
								3			
280		"	"					4	"		
								3			
								3			
510		1.14	K0III					2	Std Vel	β Gem	14K
								3			
300	4"	"	"					2	"		9K
								3			

201 P447

Date 1995 oct 25/26 Observers [KK] Ta./Sat.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
C010261	HD62509	07 39 12	+28 16 04	02 36 34		03 08 E			84
62	Comp							ThAr	25
63	BIAS(4)			2 40					—
64	COMP							"	2
65	HD22484	3 31 46	+0 05 04	2 47 35		1 20 W			600
66	COMP							"	2
67	COMP							"	"
68	ADS 2644A HD22468A	3 31 39	+0 15 41	3 01 49		1 38 W			823
69	COMP							"	2
70	ADS 2644B HD22468B			3 17 45		2 21 W			2400
71	COMP							"	2
72	ADS 2644A HD22468A			3 59 19		2 34 W			720
73	COMP							"	2
74	BIAS(4)			4 20					—
75	COMP							"	2

Spectr. Temp. ..... Dome Temp./Hum. 11.6°C 84.5% Transparency Conditions ..hazy, dome getting wet....

Focus ..1.238..... 282

Spectr. Temp. ..-100.6°..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	ADU Quality
330		1.14	K0III	echelle	300 l/mm	60×400 μ	6300Å	2	Sh/ref	β Gem	
								3			
								1/2			
								3			
131	3"	4.28	F9III-V					5	~~KK~~ Sh. Vel.		max 9.8K
								3			
								3			
31	3"-2"	5.18	G9V					4	KK V₁ s Bin	brighter & E 3K sum over 8 cols	
								3			
0	3"	8.73	K6V					5	"	fainter & due W	800 sum above bg over 8 cols
								3			
20	3"	5.18	G9V					4	"	brighter & E	bit less than A last time
								3			
								1			
								3			

pg #8

Date 1995 October 25/26 Observers [KK]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cel0276	ADS4200A HD37013A	5 30 24	+21 56	4 27 54		1 14 W			1356
77	COMP							ThAr	2
78	ADS4200B HD37013B	"	"	4 52 01		1 49W			2025
79	COMP							"	2
80	ADS4200A HD37013A	"	"	5 27 26		2 04 W			779
81	Comp							"	2
82	BIAS(4)			5 42					—
83	COMP							"	2
84	ADS6993A HD74874A	8 41 29	+647 09	5 48 15		0 57 E			70
85	COMP							"	2
86	ADS6993B HD74874B	"	"	5 50 49		0 47 E			518
87	COMP							"	2
88	ADS6993A HD74874A	"	"	6 08 37		0 44 E			126
89	COMP							"	2
90-96	FLAT x 7					3 00W	+12°	Tung	2
97/98	INBOARD/OUTBOARD					"	"	ThAr	3/2

CCD
Spectr. Temp. -100.3°C Dome Temp./Hum. 4.9°C/82.8% Transparency Conditions hazy, bit of W. wind now...

Focus .....2.38.....

Spectr. Temp. ..... Dome Temp./Hum. .....

204

0 0 256 1024 4 1 conf'd.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	☐ Inst. ECHELLE	☒ Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
7	2"	7.20	F8	H 18.51	300 ℓ/mm .580	60μ W 400μ H	6300 Å	2	KK Vis Bin	brighter & E grad/ separation tonight	2.5K sum above b/g over 8 cols
								3			
2	2"	7.80	?F8?					4	"	fainter & W ~~sthe~~ sp. type as A	0.5 K sum over 8 cols
								3			
6	2"	7.20	F8					2	"	brighter & E, at times the seeing looked <2".	only ½ as strong as A or B. Weird.
								3			
								1/2			
								3			
45	3'-4'	3.40	?					2	KK Vis Bin	much brighter & SE.	4K sum over 8 cols
								3			
36	3"	6.80	dF7					4	"	fainter & NW 2.5" separation possible contamination from A?	
								3		chip T = 99.4°C	
~~2952~~	3"	3.40	pretty close to B's					2	"		
								3			
						60μ W 400μ H		3			10.2K → 10.2K
						60μ W 480μ H		7/8	FOCUS TEST	end of night.	

pg#1 Mon/Tues

Date Oct 30/95/Oct/31. Observers Hall/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
Ce 10299/300	Focus test							ThAr	2/2
301	Bias(4)								
302	Comp							ThAr	2
303	HD26462	$4^h06^m09^s$	$05^\circ 15' 46''$	23:11:13		$2^h 27^m E$			830s
304	Comp							ThAr	2
305	HD26462			23:26:35		$1^h 55^m E$			1846
306	Comp							ThAr	2
307	HD26462			00:00:00		$1^h 22^m E$			1830
308	Comp							ThAr	2
309	BIAS(4)			0 34 m 17 s					
310	HD26462			$00^h 36^m 40^s$		$0^h 45^m E$			1801
311	comp							ThAr	2
312	HD26462			$00^h 08^m 40^s$		$0^h 15^m E$			1800s
313	Comp							ThAr	2
314	BIAS (4)			01 40					

CCD
Spectr. Temp. −100 °C Dome Temp./Hum. 68.4°/68.4% Transparency Conditions Partially Cloudy 205

Focus 9234

Spectr. Temp. ..... Dome Temp./Hum. .....

00 256 1024 41

Exp. Mtr.	Seeing	Pt. Mag.	Sp.	Inst. Echelle 300	Grating/ X Tilt	Slit	Emulsion Number	Pol.	Program	Remarks	Quality
				18.00	300 l/mm 0.5685	60μW 400μH	6520Å	Hα	Hα (WBH)	00 128 1024 81	
								1/2		00 256 1024 41	
								3			
0		5.73	E4Y					4		clouds 20 adu above background. S/N ~ 20	
								3			
0								5		much cloud 100 T adu above bkgd. S/N ~ 40	
								3			
2	(Exposure meter Balance Rotation now) [But cloud probably makes it seem like 8-9th mag]							4		much cloud. S/N ~ 55 85 adu above bkgd.	
								3			
								1/2		CCD T = −100.4°C	
1	5"							2		Still patchy high altitude cirrus S/N ~ 50/1	
								3		-	
6	<3"							6		S/N ~ 80/1 medium thick cloud	350 Above Bias
								3			
								1/2			

pg#2 Mon / Tues

Date 1995 Oct 30/31 Observers Hml / Tm

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10315	HD26462	04 06 01	+51 54 6	01 41 38		00 19 W			180 2
316	Comp							ThAr	2sec
317	BIAS (1)			02 17					
318-327	Flats x10			02 40		2 43W	+6°	Tung	2s

Spectr. Temp. ..... Dome Temp./Hum. +4.1°C 66.0% Transparency Conditions ..Medium thick H. Cloud.....

Focus ....2.38..... 268

Spectr. Temp. ..... Dome Temp./Hum. +3.7°C 66.8% → Complete Cloud.

Clambly

Exp. Mtr.	Seeing	Mag.	Sp.	Inst. echelle idt.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
2	4"	6.73	F4V	18.00	300 h/mm ●.5685	60u W 400u N	6520H	2c₀	-	medium thick cloud ~ Wadi above background.	
						900u H=.225		3c₁			
								1/2			
						600u H=.205		3c₁		mark B, 11 L K A0 H	

pg #1

Sun/Mon

Date 1995 November 5/6 Observers Tn/Smt + [Bln]

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC36807/08	INBOARD/OUTBOARD							FeAr Clear	40/70
09	BIAS (4)								—
10	COMP							"	60
11	HD188001	19 47 54	+18 24 53	18 04 59					850
12	COMP							"	60
13	~~COMP~~ BIAS (4)			18 23					—
14	Comp			"				"	60
15	HD187691	19 46 14	+10 09 55	18 28 11		01 26 W			453
16	Comp							"	60s
17/26	FLATS x10					01 34W	+0 24	TuNG Clear	22s
27	COMP							FeAr Clear	60
28	HD187691	19 46 14	+10 09 55	18 54 42		1 51 W			320
29	COMP							"	60
30	COMP							"	"
31	HD172187	18 33 42	+43 08 12	19 13 30		3 35 W			1005
32	COMP							"	60

CCD
Spectr. Temp. -100.6°C Dome Temp./Hum. 2.1°C/50.8% Transparency Conditions clear, windy 21.D.
@ focus test
Focus 6.90
FANS OFF
Spectr. Temp. Dome Temp./Hum.
420 0 50 1024 4 1 ccd font
MAX ADU

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG39 FILTER				CASS CCD	1800 l/mm G=4625	30μm	4520Å	3/4	focus test		
								1			
								5			
10.6K	3"-4"	V 6.22	08f					6	Bagnuolo pgm?		max ADU 6.1K
								7			
								1			
								9			
9500		V 5.11	F8V					9	Std vel		
								10			
								11			15.6K
BG, 39 FILTER				CASS CCD	1800 l/mm G=4586	30μm	4461Å	12			
6.6K	4"	V 5.11	F8V					13	Std vel	S/N ~ 200:1	3.4K
								14			
								15			
10.2K	3"	B 6.40	F0V					16	Bln SB2	S/N ~ 270:1	6.4K
								17			

pg # 2

Date 1995 November 5/6 Observers [Bln] / Tn / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36833	BIAS(4)			19 34					—
34	COMP							FeA clear	60
35	HD180316	19 11 00	+27 46	19 41 32		3 42 W			2000
36	COMP							"	60
37	COMP							"	"
38	HD192518	20 10 08	+28 23 30	20 21 26		3 01 W			700
39	COMP							"	60
40	BIAS(4)			20 35					—
41	COMP							"	60
42	HD210459	22 05 33	+32 41 15	20 40 40		1 17 W			300
43	COMP							"	60
44	COMP							"	"
45	HD214946	22 36 42	+44 29	20 55 12		1 40 W			2638
46	COMP							"	60
47	BIAS(4)			21 43					

Spectr. Temp. ..... Dome Temp./Hum. +0.9°C / 54.6% Transparency Conditions . clear, bright moon rising (full?)

Focus ..... 6.90 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

FANS OFF 212

420 0 50 1024 4 1 ccdfmt

Exp. Mtr	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
BG 39 FILTER				CA=S CCD	1800 ℓ/mm G=4586	30μm	4461 Å	1			
								18			
10.2K	3"-4"	B 6.64	B8					19	B/n SB	S/N ~ 260:1	4.7K
								20			
								21			
15.3K	3"-4"	B 5.36	A7IVn					22	B/n A-shell*	S/N ~ 320:1	7.8K
								23			
								1			
								24			
17.1K	3"	B 4.75	F5III					22	B/n A-shell*	wrote 2 prog cache edit start time. S/N ~ 325!	10.2K
								24			
								25			
11.2K	3"	B 7.26	A5					26	B/n SB2	S/N ~ 270/1	V8
								27			11.2K
								1/2			

213 Pg #3 Sun/Mon

Date 1995 Nov 5/6 Observers [Blank]/T.A./Smith

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC3688 68/67	FLATS x 20					01 55W	+45°	Tung Clear	22s
CC3686 68/69	INBOARD/OUTBOARD							Feltr clear	20/40
70	BIAS(4)			23 03*					—
71	COMP							"	20
72	HD226868	19 54 36	+34 56	22 40 43		5 45 W			1222
73	COMP							"	20
74	COMP							"	"
75	HD218915 ???	23 06 42	+52 31	23 08 32		3 30 W			3016
76	COMP							"	20
77	BIAS(4)			00 01					
78	Comp			~~00~~		~~W~~		"	20
79	HD 14633	02 16 42	+41 02 00	00 17 14		0 55W			1094
80	Comp							"	20
81	Comp							"	20
82	HD 15137	02 21 12	+52 06 00	00 45 36		1 28 W			1630
83	COMP							"	20

??? A 9.1mag "NONSTAR" 2' SSE of HD218915

CCD Spectr. Temp. −100.4°C ..... Dome Temp./Hum. −00.2°C 59.0% H Transparency Conditions ... Slightly hazy & Full moon

Focus. G:90 for 1800ℓ/m G=4586 - Focus for 600ℓ/m G=2680 = 7.03

Spectr. Temp. ..... Dome Temp./Hum. ..... C Lundahl

24 MAX

Exp. Mtr.	Seeing	Pig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG 37 Filter				CHSSCCD	1800 ℓ/m G=4586	306μ	4461Å	28		420 0 50 1024 4 1 ccdsht	15K
				CASS CCD	600 ℓ/m(2) G=2685	250μ	4300Å ±5Å	3/4	FOCUS TEST	485 0 50 1024 4 1 ccdsht set a bit cool.	
								1		*done after Cyg X-1	
								5			
448	4"	B 9.74	O9.5Iab	Star 60:1 at midchip.				6	Bln-0* Cyg X-1	very faint companion to NW inches off the left arm of the CCD	
								7			
								8			
1800	4"	B 7.20	O9.5Iab* looks like late type (G→K)					9	Bln-0*	*Note PROBABLY NOT RIGHT STAR, TOO LATE TOO ~ 200/1 S/N probably star just to S of correct one.	
								10			
								1/2			
			* Reset to	G=2685				11		*note - Grating went "Home" upon spectr control failure. But wavelength Re-established closely.	
425 K		B 7.26	O N8 V					12	Bln-0*	330/1 S/N (Field checks out well)	125 K
								14			600 MAX
								15			
3510		B 7.72	O9.5 II-III (n)					16	Bln-0*		
								17			

pg #4

Date 1995 November 5/6. Observers [Blank]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	
cc36884	BIAS(4)			1 15					—	
85	COMP							FeAr clear	20	
86	HD17505	2 43 24	+60 01	1 23 42		1 38 W			133/6	9.2
87	COMP							"	20	
CG80226→29	HD29587 x4	4 34 30	+41 57					4x	.067s	
30/31	" x2				2 02	0 04 W	88° Alt	2x	.033s	
cc36888	BIAS(4)			2 03					—	
89	COMP							FeAr clear	20	
90	HD29587	4 34 30	+41 57	2 06 39		0 18 W			610	1.6
91	COMP							"	20	
92	Comp							"	20	
93	HD37022D	05 3023	-5 2714	02 2902		00 13 E			622	3.0
94	Comp							"	20	
95	HP37022C	05 3022	-05 2720	02 4225		00 06 E			249	5.0
96	Comp									

Spectr. Temp. ..... Dome Temp./Hum. −0.9°C / 63.7% Transparency Conditions . clear, full moon .....

Focus . . 7.03 .....

Spectr. Temp. ..... Dome Temp./Hum. −1.0°C / 64.5% @ focus tested

FANS OFF 46

485 0 50 1024 4 1 ccd#3

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
BG39 Filter				CASS CCD	600 l/mm (c) G: 2685	250μ	4300Å	1			
								18			
4.2K	3"	B 7.47	06.5V(f))					19	Bln O-star*	pair? E-W along slit, brighter on E. 3"-4" separation field checks out perfectly.	10.0K
								20			
	3"	V 7.26	dG2	EEV CCD TU GUIDER		above 250μ		–	SEEING TEST	Dome W, full moon, clear, SW wind medium	
								–	"		
				CASS CCD	again			1			
								21			
1760	2"-3"	V 7.26	dG2					22	Std Vel		
								23			580
								24			
3060	4"	B? 6.86	09.5V?					25	Bln O*	Mistake: HD370220 instead of HD370230	5.7K
								26			
5000		B 5.17	06 ep(?)					27	"	South one of TRAPezium	12.4K
								28			

WPg #5

Emulsion Batches:

Date 1995 Nov. 5/6 Observers [illegible]/Jm/Smt

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36897	Comp							Feb clear	20s
98	HD37043	05 30.5	-05 59	02 5255					37
99	Comp							"	20
cc36900	Comp							"	20
01	HD 37366	05 3300	+305000	030110		0 29 W			1100
02	Comp							"	20
03	BIAS (4)			3 27					—
04	COMP							"	20
05	HD34656	5 14 00	+37 20	3 31 39		1 07 W			680
06	COMP							"	20
CG8[illegible]2-34	HP37023 x3	5 30 23	-5 27 14	all labelled incorrectly in headers.					.133
cc36907	COMP							Feb clear	20
08	HD37023[illegible]A	5 30 23	-5 27 14	4 05 56		1 17 W			220
09	COMP							"	20
10	HD37023 D	05 3023	-05 27 14	04 19 34		2 17 W			2987

Spectr. Temp. ..... Dome Temp./Hum. -1.1°C 64%H Transparency Conditions clear, full moon 2/6
Focus 7.03 some cloud by 5 AM
Spectr. Temp. ..... Dome Temp./Hum. -1.5°C 67%H

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
B639 Filter				CASSCAD	600 l/mm G=2683	300μ	4-300	29			
5,300								6	Bln O*		11K
								7			
								8			
3730	4"	7.67	09.5V					9	Bln O*	>300/1 S/N	9K
								10			
								11/2			
								11			
4,120	4"	6.81	O7III(f)					12	Bln - O*		10K
								13			
		[illegible]		EEV CCD TV GUIDER		none		—	field ID	Hare mirror, 3 frames to mosaic. 1) W field, 2) middle, 3) E field (A is brightest) (G is brighter X is brightest)	
		[illegible]	[illegible]	very early.				14			
4550	4"	[illegible]	[illegible]					15	Bln - O*	brightest of 3 in all me W [illegible] of 3	6.8K
								18		a bit late.	
3400	4-6"	6.86	09.5V					19	Bln O*	5' Field DRAWN furthest E of 3 in a line. [200/1 S/N]	

NM pg#6 sun/mon

Date 1995 Nov 5/6 Observers [Bln] I Tn I Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC 36911	Comp							FeAr clear	20
12	BIAS(4)								
13	Comp							"	20
14	HD 37742	05 35 43	−01 59	05 15 43		2 19 W			30
15	Comp							"	20
16	Comp							"	20
17	HD 47432	06 33 27	+1 42 03	05 28 17		2 03 W			1820
18	Comp							"	20
19	BIAS(4)			1 02					—
20	COMP							"	20
21	HD 47839	6 35 28	+9 59 18	6 04 28		2 11 W			250
22	COMP							"	20
23 - 42	FLAT x 20					0h 00m	+20° 58′	Tung clear	6
43/44	INBOARD/OUTBOARD					"	"	FeAr clear	20/40

CCD
Spectr. Temp. -100.3°C Dome Temp./Hum. -1.8°C / 69.2% Transparency Conditions .. Thin cloud coming in...

Focus ....7.03.....

Spectr. Temp. ..... Dome Temp./Hum. ..... c Lambda

220

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG39 Filter				CASSCCD	600 l/mm G=2685	25u	4300Å	20			
								1/2			
								21			
4.4K	6"	1.54	09-5 I6					22	Blg 0*	cloud	
								23			
								24			
3.8K	5-8"	6.36	097 I6					25	Blg 0*	cloud, sky lines.	5.2K
								26			
								1			
								28			
3.9K	5"	B 4.40	OTV((f))					29	Blg-0*	faint companion to SE. really brighter stars all around VERY BROAD PROFILE (covers ~10 col's)	5.0K
"								30			
								31		chip just starting to warm -99.5°C at start -97.7°C at end	13.9K →12.8K
								3/4			

pg #1
dm Mon/Tues

Date 1995. November 6/7. Observers [Bln]/Tn./Smt.....

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc369945/46	INBOARD/OUTBOARD							FeAr clear	20/40
47	BIAS(4)			19 47					—
48	COMP							"	20
49	HD226868	19 54 36	+34 56	19 53 37		3 21 W			2400
50	COMP							"	20
51	HD226868			20 36 18		4 04 W			2400
52	COMP							"	20
53	BIAS(4)			21 19					—
54	COMP							"	20
55	HD188001	19 47 54	+18 24 53	21 22 30		4 25 W			500
56	COMP							"	20
57	COMP							"	"
58	HD218915	23 06 42	+52 31	21 40 39		1 30 W			865
59	COMP							"	"
60	Comp							"	20s

CCD Spectr. Temp. -100.7°C Dome Temp./Hum. 3.6°C / 64.4% Transparency Conditions: just cleared completely...

Focus 6.99 @ focus test FANS on 222

Spectr. Temp. ..... Dome Temp./Hum. ..... 485 050102Y 41 redhat.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
Bu 39 filter				CASS CCD	600 ll/mm G=2685	250μ	4300Å	3/4	FOCUS TEST	set a bit cool, dome closed still.	
					[unchanged from last night]			1			
								5			
1635	2-3"	9.74	B9.7 Iab					6	Blu 0*	Cyg X-1 S/N ~150:1	3.2K
								7			
1657								8	Blu - 0*	Cyg X-1 again to boost S/N	3.1K
								9			
								1			
								10			
3.6K	4"	6.29	O7.5 Iaf		S/N ~270:1 at midchip			11	Blu - 0*	dome last night with 158 l/mm centered @ 4520Å	7.5K
								12			
								13			
4.3K	<2-3"	7.20	O9.5 Iab					14	Blu - 0*	Field Drawn	12.5K
								15			580
								16			

Pg#2 Mon / Tues

Date 1995 Nov 6/7 Observers [Bin]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc36961	HD210809	22 07 54	+51 56 00	22 02 16		02 56 W			1160
62	Comp							Fe Ar clear	20sec
63	BIAS(4)			22 24					
64	Comp							"	20s
65	HD 108	00 00 54	+63 07 00	22 28 12		01 37 W			1729
66	Comp							"	20s
67	Comp							"	20s
68	HD209975	22 02 04	+61 47 36	23 02 41		03 48 W			262
69	Comp							"	20s
70	Comp							"	20s
71	HD5005	00 47 00	+56 05 00	23 13 07		1 48 W			2500
72	Comp							"	20s
73	BIAS(4)			23 58					—
74	Comp							"	20s
75	HD 42088	06 03 42	+20 31	00 09 16		2-39 E			2122

CCD Spectr. Temp. −100.4°C ..... Dome Temp./Hum. +3.0°C ... 70.0% Transparency Conditions . Mostly Clear 22h

Focus ... 6.99 .....

CCD Spectr. Temp. −100.6°C .... Dome Temp./Hum. +3.1°C ... 70.7%H

To Increasingly Cloudy

FULL moon tonight

mAx ADC

Exp. Mtr.	Seeing	Prg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG 39 F 11 02 3.7K	2"-3"	7.59	09 Ib	CASSCCD	600 l/mm G2685	750	4300Å	17	Bln 0*	(300/1 S/N)	11K
								18			590
								1/2			
								19			
3.3K	3"	7.58	06 Type					20	Bln 0*	increasing cloud	
								21			
								22			
3.9K	3"	5.19	0 9.5 Ib					23	Bln 0*		11K
								24			600
								25			
3355	2"	7.85	065V					26	Bln 0*	(There is A ?? very close East companion A close 4 some diffraction) [270/1 S/N]	8.5K
								27			
								1			
								28			
1850	2"	7.61	065V					29	Bln 0*	PART cloudy (~200/1 S/N)	

2W pg#3 Mon / Tues

Date 1995. Nov. 6/7..... Observers [Blank] / T. n. / Smt.....

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC36976	Comp							FeAr Clear	20s
77/96	FLATS x 20					02 30E	+20 26	TYNG Clear	6s
97	BIAS(4)			01 00					
96	Comp							FeAr Clear	20s
99	HD42088	06 03 42	+20 31	01 03 16		01 51E			1686
CC37000	Comp							"	20s
01/02	Inboard / Out BOARD	HARTMANN				0 0		"	20/40

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions Half Cloudy

Focus 6.29 To ~Completely so 11

CCD
~~Spectr~~. Temp. ..... Dome Temp./Hum. +3.2°C 71% Medium ESE wind increasing

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG 39				CASSCCD	600 l/mm G = 2685	25μ	4300A	5			
								2c:			14K
								1/2			
								7c:			
1800	2-3"	7.61	0655					14c:	Blu 0 *	Repeat - PartCloudy cut short due to cloud cover.	
								15c:			
T=+3.2°C		Set 6.99						3/4	focus test		

pg #1 Tues/Wed

Date . 1995. Nov 7/8 .... Observers [R.m]/. T.o./ Smt. .....

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	
cc3700 3/4	Inboard / outboard Hartmann							Fear clear	60/60	ccd Spectr.
05	BIAS(4)			18 52					—	Focus
06	COMP							"	60	Spectr.
07	HD180583	19 11 59	+27 44 59	18 57 49		2 40 W			500	Exp Mtr
08	COMP							"	60	3480
09	COMP							"	"	
10	HD331970	20 08 27	+32 34 16	19 14 06		2 25 W			2040	1350
11	COMP							"	60	
12	BIAS(4)			19 51					-	
13	COMP							"	60	
14	HD187691	19 46 14	+10 09 55	19 55 17		2 58 W			220	3750
15	COMP							"	60	
16	COMP							"	"	
17	HD203156	21 15 23	+37 48 55	20 06 21		1 46W			563	4620
18	Comp							"	60	

CCD Spectr. Temp. −101.8°C Dome Temp./Hum. +4.1°C 68.3% Transparency Conditions Clearing, despite forecast.

Focus After focus Test set to 6.85 FANS OFF full moon (just past) 228

Spectr. Temp. Dome Temp./Hum. 3.9°C / 66.0% 420 0 50 1024 4 1 ccdfmt

Exp Mtr	Seeing	Ptg. Mag	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
OG560 Filter				CH35 CCD	1800 l/mm G=5945	30μ	6397Å	3/4	focus Test	done @ 6.83 & 4.0°C, still too warm and T dropping so changed to 6.85 before observing	
								1			
								5			
3980	5"	(v) 6.19	F6J-II6					6	Rm Cepheid	V473 Lyr	8.7K
								7			
								8			
1350	3"-4"	v 9.1-9.8	F8-G2Ib					9	Rm Cepheid	MW Cyg, ~~star~~ hot pixel on strongest color.	2.5K
								10			
								1			
								11			
3750	4"	v 5.11	F7V					12	Std. Vel.	300/1 S/N	7.0K
								13			
								14			
4620	4"-6"	v 5.8-5.9	F2					15	Rm Cepheid	V1334 Cyg, some cloud.	8K
								16			1.8K

pg#2 Tues/Wed

Date 1995 Nov 7/8 Observers [R.m]/T.n/Smt

Emulsion Batches: .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC37019	Comp							FeAr Clear	60s
20	HD 214975	22 36 54	+56 19 00	20 25 59		1 19 W			2669
21	Comp							"	60s
22	BIAS(4)			21 14					—
23	COMP							"	60s
24	HD215159	22 38 15	+53 23 08	21 19 12		1 32 W			345
25	Comp							"	60s
26→35	FLAT x 10					1 42 W	+54°	Tung ¼ Ap	8
CG80235→38	HD3765 x 4	0 35 18	+39 40						.067
39/40	" x2				21 48	2 50 W	+86° Alt		.133
CC37036	COMP							FeAr Clear	60
37	HD3765	0 35 18	+39 40	21 52 40		0 14 W			715
38	COMP							"	60
39	BIAS(4)			22 10					—
40	COMP							"	60

Spectr. Temp. ..... Dome Temp./Hum. +2.4°C 69%H Transparency Conditions ..P.CAST..Cloudy..... 230

Focus ....6.25.....

Spectr. Temp. ..... Dome Temp./Hum. 1.8°C/71% @ Lambda test FANS OFF 420 0 50 1024 4 1 ccdfast

Exp. Mtr.	Seeing	P.V. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
OG 560 Filter				CASSCCD	1800 l/mm G=5945	316u	6347A	16			
2075	6-8"	840	~GOI6					17	Rm Cepheid	Z Lac S/N > 200:1	
								18			
								1			
								19			
L230	4-6"	6.19	K2					20	Rm Cepheid	b.t off cloud, quite a bit. Z Lac velocity comparison star	4.7k
								21			
								22		cloudy stretch.	11.3k → 10.7k
	4"	7.36	dk5	LEV CCD TV GUIDER		above 30u		—	SEEING REST	Dome W, slight WNW wind, cloud bank just passed over, ∴ clear, improving now that bank has gone past.	
	3"							—			
				CASS CCD	...			23			
2380	3"	7.36	dk5					24	Std. Vel.	clear now. cloud at end.	
								25			
								1			
								26			

Pg #3 Tues/Wed

Date 1995 November 7/8 Observers [Rna]/Tn./Sat + [Bin]

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37041	HD25361	3 56 42	+58 23	22 15 51		2 41 E			1042
42	COMP							FeAr clear	60
43	HD25361	"	"	22 42 56		2 12 E			1200
44	COMP							"	60
45	BIAS(4)			~~23 05 27~~ FOR BIAS(4)					
46	Comp							"	60
47	HD 30282	4 41 06	+36 32 00	23 11 50		2 14 E			
48	Comp							"	60s
49	Comp							"	60s
50	HD 44990	6 19 49	+07 08 25	23 54 08		3 26 E			884
51	Comp							"	60
52	BIAS(4)								
53/54	INBOARD/OUTBOARD							FeAr clear	60/60
55/56	Inboard/outboard Hartmann					0 0	+34 26	FeAr clean	40/40
57	BIAS(4)			2 25					—
58	COMP							"	60

CCD Spectr. Temp. −100.4 °C Dome Temp./Hum. +1.6°C / 73.3% Transparency Conditions. partly cloudy 23.2
To completely so.

Focus 6.85 / 6.91 @ 4461 Å

Spectr. Temp. ..... Dome Temp./Hum. 1.4°C / 78.2%

420 0 50 1024 4 1 ccd int 404 max

Exp. Time / FILTER	Seeing	V Mag	Sp.	Inst.	Grating / Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1133*	3-4"	7.35 / -8.07	F6 Ib / -G2 Ib	CASS CCD	1800 l/mm G=5945	30μm	6397 Å	27	Rm Cepheid	*In cloud - hole disappeared and came back and gone. RX Cam lots of sky & solar s/n > 100:1	1.0K
								28			
2478	4-5"	"	"					29	Rm Cepheid.	bit of clear but not much. bit of gap between comp and exp. start	5.2K
								~~25~~ 5 for BIAS(4)			
								5			
4000	4"	7.9 / -8.8	F6 / -G1					6	Rm Cepheid	half cloudy -	5.2K
								7			1.5K
								8			
3750	3-5"	B 6.5 / -8.0	F7 Iab / -K1 Iab					9	Rm Cepheid	T mon	5.8K
								10			
								1		cloud & snow. - closed.	
								3/4	FOCUS TEST	T=1.7°C Focus 6.85 then top up.	
BG 39 FILTER				CASS CCD	1800 l/mm G=4580	30μm	4461 Å	3/4	" "	T=1.8°C focus = 6.91 perfect!	
								1			
								11			

pg 4

233 Date 1995 November 7/8 Observers [Bln] / Tn / Smt

Emulsion Batches: .....

.....

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37059	HD37017	5 30 25	-4 33 36	2 31 10		0 40 W			3160
60	COMP							FeAr clear	60
61	BIAS(4)			3 26					
62	Comp							"	60
63	HD 37468	5 33 44	-02 39 28	3 39 34		0 58 W			363
64	Comp							"	60s
65	ADS 4241 D	5 33 42	-2 39 12	3 51 18		1 10 W			379
66	Comp							"	60
67	COMP (TEST)							TiNe clear	60
68	Comp							FeAr Clear	60
69	ADS 4241 D	5 33 42	-2 39 12	4 19 12		1 41 W			555
70	Comp							FeAr Clear	60
71	BIAS(4)			4 35					—
72-81	FLAT x 10								
82	Comp(+EST)	Still ~~[illegible] for [illegible] Name cc37078 Through~~		4 33				FeNe Clear	60s

CCD
Spectr. Temp. -100.2°C Dome Temp./Hum. +1.4°C / 75.7% Transparency Conditions partly cloudy, some ice crystals. illuminated by full moon. pretty hazy all over @ 3:10 234

Focus 6.91

Spectr. Temp. ..... Dome Temp./Hum. .....

420 0 50 1024 4 1 ccd flat

Exp. Mtr.	Seeing	B Mag. / V Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
BG39 7230	4-6"	6.42	B2V	CASS CCD	1800 l/mm G=4586	306μ	4461Å	12	Bln He-rich	a bit of haze/cloud here. was better just before exposure. improved slightly [2:0/1 S/N]	3.4K
								13			
								16			
13,500	5"	V=3.81 B=3.67	09.5V					17	Bln pgm	a ori AB	5.5K
								18			
1840		6.3	B2V					19	Bln pgm	60/1 S/N guided to keep AB OFF slit	
								20		cloud ahead	
								30		just a test - Bln used to want Ti source.	
								21			
1290		6.3	B2V					19	Bln pgm	S/N ~ 75:1	
								23			
								1			
								2			12.5
								~~30~~ 3		almost no lines on red ½	

NGC pg #1 Thurs/Fri

Date 1995 November 16/17 Observers [kk]/Tn/Smt

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10328/29	INBOARD/OUTBOARD							ThAr	3/2
30	BIAS(4)			22 33					—
31	COMP							ThAr	2
32	HD201091	21 02 25	+38 15 27	17 36 22		W			618
33	Comp							"	2
34	HD201092	21 02 26	+38 15 14	17 48 30		0 27 W			1232
35	Comp							"	2
36	HD201091	21 02 25	+38 15 27	18 10 55		0 41 W			757
37	Comp							"	2
38	BIAS (4)			18 24					
39	Comp							"	2
40	HD217014	22 52 33	+20 13 57	18 31 27		0 41 E			1205
41	Comp							"	2
42	HD217014	"	"	18 53 00		0 23 E			1001
43	Comp							"	2

CCD
Spectr. Temp. −100.4°C Dome Temp./Hum. +0.3°C/67.6% Transparency Conditions . clear & slightly hazy 236

Focus .... 230 .....

CCD
Spectr. Temp. −100.8°C Dome Temp./Hum. ..... MAX

Exp. Mtr.	Seeing	Hr Mag.	Sp.	CCD Inst ECHELLE	X Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				tilt: 1842	300 Rl/mm 5745	100μW 500μH 60μW = 277 100μW = 225	6300Å	1/2	FOCUS TEST	0 0 128 1024 8 1 coadd	
								1		0 0 256 1024 4 1 coadd	
								3			
70	3"	5.22	K5V					4	V is Bin KK	Also encoder normalization BRIGHTER NW STAR.	1.7K
								3			
67	3-4"	6.04	K7V					5	"	fainter SE.	20K
								3			
69	3"	5.22	K5V					4	"		
								3			
								1			
								3		18 EST Pearson Airport Arp WSW 11 Km/hr. P 101.88	
40	3-4"	5.53	G5V					6		That "planet" star 200/1 S/N	20K
								3			
40	4"	5.53	G5V					2			1.7K
								3			

Pg#2 Thurs/Fri

Date .1995. Nov. 16/17... Observers .[KK]./.Tm./.Sent.....

Emulsion Batches: .....

.....

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10344	Comp							ThAr	2
45	HD206778	21 39 16	+09 24 59	19 14 50		0 59 W			203
46	Comp							ThAr	2
47	HD206778	"	"	19 20 26		1 05 W			208
48	Comp							"	2
49	Comp							"	2
50	ADS14270A HD197913A	20 41 36	+15 33 00	19 29 11		2 38 W			1805
51	Comp							"	2
52	ADS14270B HD197913B			20 02 00		3 34 W			3150
53	COMP							"	2
54	ADS14270A HD197913A			20 56 26		4 07 W			1880
55	COMP							"	2
56	BIAS(4)			21 30					—
57	COMP							"	2
58	ADS14279A HD197964	20 42 01	+15 45 50	21 37 47		4 25 W			500

Spectr. Temp. ..... Dome Temp./Hum. -10°C 73% Transparency Conditions .. slightly hazy 22s

Focus ... 230 ..... (very light WNW breeze) MAX

Spectr. Temp. ..... Dome Temp./Hum. ..... Cloudy

Exp. Mtr.	Seeing	Pt Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				echelle	300 l/mm .5795	60 μ 400 μ H	6300	3			
136	3"	2.39	K2 Ib-II					4	KK pgm or std vel		8.8K
								3			
150		"	"					4	"	ex - std vel	9K
								3			
								3	"		
0	3-5"	7.50	K0					5	KK Vis Plan	dbl lines SOUTH brighter ~~N~~ more	>2000 400V sum midblaze.
								3			
0		8.20	?					4	"	farther north one	
								3			
0	3-5"	7.50	K0					5	"	dbl lines brighter south one.	
								3			
								1			
								3			
39	5"	4.50	K1 IV					2	"	brighter east one. Some cloud, oh no, no it's gone now.	1.5K

Pg # 3 Thurs / Fri

Date 1995 November 16/17 Observers [KK] / Tn / Smt

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
c10359	COMP							ThAr	2
60	ADS14279B HD197963	20 42 00	+15 45 47	21 47 51		4 41 W			860
61	COMP							"	2
62	ADS14279A HD197964	20 42 01	+15 45 50	22 03 16		4 47 W			240
63	COMP							"	2
64	COMP							"	"
65	HD222368	23 34 46	+05 05 03	22 16 53		2 10 W			400
66	Comp							"	2
67	HD222368			22 25 19		2 17 W			372
68	COMP							"	2
69	BIAS(4)			22 33					—
70	Comp							"	2
71	HD20902	3 17 11	+49 30 19	22 47 25		01 14 E			175
72	comp							"	2
73	HD20902	"	"	22 46 47		1 10 E			157
74	Comp							"	2

Spectr. Temp. ..... Dome Temp./Hum. −2.4°C/81.9% Transparency Conditions partly cloudy 240

Focus ..... 2.30 ..... Light WNW wind

Spectr. Temp. ..... Dome Temp./Hum. .....

0 0 256 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	CCD Inst. ECHELLE	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				tilt 18.42	300 ℓ/mm .5795	60μW 400μH	6300 Å	3			
27	5-6"	5.50	F7 I					4	KK Vis Bin	fainter W one	
								3			
11	"	4.50	K1 III					2	"	bright E one again getting very close to platform, more cloud → clock drive off for comp.	
								3			
								3			
88	4"	4.13	F7 I					5	Std/vel		2K max
								3			
37								5	"	clouded out here.	
								3			
								1			
								3			
290		1.79	F5 Ib					3	Std KK	some cloud	4.7K
								3			
390		1.79	F5 Ib					2	" "		
								3			

MP9 #4

Thurs/Fri

Date 1995 NOV 16/17 Observers [illegible]/T.n/Smt

Emulsion Batches: .....

.....

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Spectr. Focus Spectr. Exp. Mn
ce10375	Comp							T,Af,82	25	
76	HD8890	01 22 34	+88 46 26	225745		0 13 E			148	310
77	Comp							"	2	
78	HD8890	"	"	230133		0 9E			117	335
79	Comp							"	2	
80	HD8890	"	"	230449		0 5E			159	390
81	Comp							"	2	
82	Comp							"	2	
83	HD217014	22 52 33	+20 13 57	231512		4 01 W			1024	31
84	Comp							"	2	
85	HD217014	"	"	233334		4 19 W			970	17
86	Comp							"	2	
87	BillSC41			0351						

Spectr. Temp. ..... Dome Temp./Hum. -25°C 82% Transparency Conditions. Part. Cloudy 24.2

Focus .230 .....

Spectr. Temp. ..... Dome Temp./Hum. ..... clouds Light WNW wind MAX ADU

Exp. Mtr.	Seeing	Pr Mag.	Sp.	Inst. echelle	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				1.1f 18.42	300 m/mm .5795	60μ W 100μ H	6300Å	3c			
310		2	F8T5					5c	ktpyon	Telescope west side	4 K
								3			
335								5c	4		3.9K
								3			
390								5			5.2K
								3		AT 23 EST [wind WSW 15 Kms]	
								3		[Air Pressure 102.09K pascals & steady] Airport Pearson	
31		5.53	G5V					4		2nd set tonight	
								3			
17	4"	"	4					4		[Half Cloudy For Last 5 mins]	
								3			
								1		[CCD -97.5°C warming?] Denver Toppled Now	
										→	

243 pg #5 Thurs/Fri

Date 1995 Nov 16/17 Observers [KK]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mir.	Coll Spectr. Focus Spectr.
ce 10388	Comp							ThAr	2		
89	HD217014	22 52 33	+20 13 57	00 12 39		4 56 W			876	18	
90	Comp							"	2		
91	BIAS (4)			0 29					—		
92	Comp							"	2		
93	ADS 671A HD4614A	00 43 03	+57 17 06	0 36 27		3 14 W			57	49	
94	Comp							"	2		
95	ADS 671B HD4614B			0 38 54		4 06 W			3001	0	
96	COMP							"	2		
97	ADS 671A HD4614A			1 31 03		4 20 W			705	2	
98	COMP							"	2		
99	ADS 671A HD4614A			1 44 53					500	1	
ce 10400	COMP							"	2		
~~—~~	~~BIAS (4)~~										
01	HD4614A			1 54 50		4 45 W			775	73	
02	COMP							"	2		

CCD
Spectr. Temp. −101.0°C Dome Temp./Hum. −28°C 82%RH Transparency Conditions Mostly Cloudy 24.4

Focus

Dewar Topup done by 00:10

Spectr. Temp. Dome Temp./Hum.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				tilt 18.42	300 l/mm .5745	60μ 400μ	6300Å	3			
18								4c:		Another shot at tit. Only clear spot at time.	
								3			
								1			
								3			
49		3.45	GOV					2	KK Vis Bin	much brighter SE	1.0K
								3			
0	4-5"	7.51	K7V					5	"	a bit of cloud to gain to 4 magnitude difference!	1.8K ~ 50.
								3			
2		3.45	GOV					2	"	bit of cloud → lots of thick cloud! aut shot	~300
								3			
1		"	"					2	"	an attempt to get an exposure to match strength of B exposure.	
								3			
								~~2~~			
73								2	"	finally a long-lasting hole in cloud cover.	
								3			

pg # 6

Date 1995 November 16/17 Observers [KK]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10403	BIAS(4)			2 09					—
04	COMP							ThAr	2
05	HD22484	3 31 46	+0 05 04	2 16 11		2 14 W			505
06	COMP							"	2
07	Comp							"	2
08	HD22468A AOS 2644A	3 31 39	+00 15 41	2 30 32		2 29 W			534
09	Comp							"	2
10	HD22468B AOS 2644B	"	"	2 41 00		3 03 W			1984
11	Comp							"	2
12	HD22468A	"	"	3 15 41		3 15 W			590
13	Comp							"	2
14	BIAS (4)			3 27					
15	Comp							"	2
16	IRIS	04 32 31 1995.9	+25 32 37	3 32 54		2 48 W			1305
17	Comp							"	2

CCD Spectr. Temp. -100.4°C Dome Temp./Hum. -2.6°C / 81.9% Transparency Conditions: mostly cloudy – Clear again

Focus 230

CCD Spectr. Temp. -100.5°C Dome Temp./Hum.

At Pearson WSW 11 Kms/Hr @ 2Am P = 1021.8 Knish ↑ 246

Exp. Mtr.	Seeing	Mag.	Sp.	CCD Inst. ECHELLE	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				HA 18.42	300 l/mm / 5795	60μ W 400μ H	6300 Å	1			
								3			
77		4.28	F9V					6	Std Vel		2.2K
								3			
								3			
1	4.5"	5.78	G9V					4	Vis Bin KK	2 400 Above Bkg	
								3			
0	5"	8.73	K6V G5V					5	Vis Bin KK	(slightly poor separation) 2 70 Adu Above Bkg	
								3			
1	6"	5.78	G9V					4	Vis Bin		
								3			
								1		wind WNW 4 @ 3Am	
								3		Pressure 1021.23 1021.23 ↑	
* 10 in 300s after 7	4"	7	G2V					6	Std vel	Minor Planet	600 ref. 3.5K scan Rowland
* Exp meter Balance adjusted								3		no wind felt	
X				Counts in ___ secs							

pg #7 Thurs / Fri

24

Date 1995. Nov. 16/17... Observers [KK]./Jn./Smt.....

Emulsion Batches:

.....

.....

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10418	COMP							Thar	2
19	ADS6650AB HD68257	8 06 29	+17 56 58	4 03 14		0 30 E			730
20	COMP							"	2
21	ADS6650C HD68255			4 17 47		0 04 E			1450
22	COMP							"	2
23	ADS6650AB HD68257			4 43 36		0 11 W			774
24	COMP							"	2
25	BIAS(4)			4 58					—
26	Comp							"	2
27	HD62509	7 39 12	+28 16 04	5 05 28		0 48 W			90
28	Comp							"	2
29	HD62509			5 08 24		0 51 W			103
30	COMP							"	2
31	Comp							"	2
32	ADS7251A HD79210	9 07 42	+53 07	5 17 53		0 13 E			967
33	Comp							"	2

Spectr. Temp. ..... Dome Temp./Hum. -3.1°C / 83.5% Transparency Conditions clear, cloud to far S.....

Focus ...230.....

Spectr. Temp. ..... Dome Temp./Hum. .....

248

Exp Mtr ~~unbalanced~~	Seeing	Ptg. Mag.	Sp.	CCD Inst. echelle	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				18.92	300 l/mm .5795	60u	6300A	3		bright WSW.	
100	5"	5.05	?					4	KK Vis Bin	✓ unable to separate AB itself, but easily separated from C	1.8K
								3			
100		6.20	60V					5	"	faint ENE	very well matched with AB
								3			
113		5.05	?					4	"	bright WSW	a bit stronger.
								3			
								1			
								3			
660		1.14	K0III					2	Std. Vel	β Gem.	12.5K max
								3			
600								2	"	"	12.8K max
								3			
								3			
33		7.64	M0V					4	KK Vis Bin	W ne, not much, may differ	
								3			

pg #8

Date 1995 November 16/17 Observers [KK] / Tn / Smt

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
Ce 10434	AGS 7251B HD79211	9 07 42	+53 07	5 36 11		0 04 W			933
35	COMP							ThAr	2
36	AGS 7251A HD79210			5 53 11		0 20 W			858
37	Comp							"	2
38	BIAS (4)			6 08					
39	Comp							"	2
40	HD89484	10 14 28	+20 20 51	6 15 42		0 36 E			146
41	Comp							"	2
42	HD89485	"	"	6 18 52		0 29 E			306
43	Comp							"	2
44	HD89484	"	"	6 25 29		0 25 E			164
45	Comp							"	2
46-55	FLATS x 10					3h W		TUNG	2s
56	BIAS (4)			6 43					~
57/58	INBOARD / OUTBOARD							ThAr	3/2

Spectr.
Focus.
Spectr.

Exp. Mtr
35
33
140
140
130

Spectr. Temp. ..... Dome Temp./Hum. -2.8°C/81.9% Transparency Conditions clear 250

Focus .230

Spectr. Temp. ..... Dome Temp./Hum. -3.3°C/82.1% @ focus test

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	CCD Inst. ECHELLE	X Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
35	4-5"	7.74	MO V	18.42	300 l/mm .5795	60μ W 400μ H	6300Å	5	KK Vis Bin	E one, thinner I guess	
								3			
33								4	"	W one, brighter I guess	
								3			
								1			
								3			
140	4-5"	2.22	K1 III					2	KK Vis Bin	some cloud	2.4K
								3			
140		3.47	G7 III					6	"		
								3			
130		2.22	K1 III					2	"		3.5K
								3			
						60μ H=.205		3			
								1			
						60μ W 400μ H=.225		7/8	FOCUS TEST	0 0 128 1024 8 1 coldint	

VS V pg #1 Fri / Sat

Date . 1995 NOV 17/18 . . . Observers . Hml / Tn . . . . . .

Emulsion Batches:
. . . . . .
. . . . . .
. . . . . .

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	
CC104 59/60	In board / Out Board					2.03 W	+30°		3/2	
61	BIAS (4)			18 00						
62	Comp							ThAr	25	
63	HD177724	19 06 49	+13 43 53	18 10 27		02 37W			214	240
64	Comp							"	25	
65	Comp							"	1 sec	
66	HD222368	23 34 48	+05 05 03	18 21 31		01 44E			310	68
67	Comp							"	1	
68	Comp							"	1	
69	HD217014	22 52 33	+20 13 57	18 31 51		0 49E			463	46
70	Comp							"	1	
71	HD217014	"	"	18 41 07		0 39E			493	50
72	Comp							"	1 s.	
73	Bias (4)			18 52 06						
74	Comp							"	1 s	

CCD
Spectr. Temp. −100.2°C ..... Dome Temp./Hum. +1.3°C 73%H Transparency Conditions ... Part. Cloudy 25.2

Focus ..... 225 .....

Spectr. Temp. ..... Dome Temp./Hum. ..... @ 1855T [Wind ~~Calm~~ SSW 6 Km P=107.46 ~~Steady~~ Steady] MAX ADU

Airport Weather

increasing Haze

Exp. Mtr.	Seeing	PV Mag.	Sp.	Inst. echelle	Grating/ × Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				18.00	300 l/mm T.I.T. .5685	60 μ 100 μ H	6520Å	7/8	CCDFUTO 0128 1024 8 1		
								1	CCDFUTO 0256 1024 4 1		
								3			
240	3"	2.99	A					4	Telluric Std.	Hi AIRMASS = 1.403	37K
								3		some ThAr lines saturated	
								3			
68	<3"	4.13	F7V					5	Std Vel		3K
								3			
								3			
46	<3"	5.53	G5V					6	Planet search?		2K
								3			
50		"	"					5		AIRMASS = 1.104	
								3			
								1			
								2	2ci ?		

Pg #2

Date Nov 17/18 1995 Observers Hoad/Tm

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10475	HD222368	23 34 48	+05 05 03	18:57:51		1 01 E			327
76	Comp							ThAr	1s
ce10477	HD26462(?)	4h 06m 01s	+05 15 46	19 23 30		4h 48 1/2E			1800s
78	comp							ThAr	1s
79	Bias(4)			1959					
80	HD26462	4h 06m 01s	+05 15 46	20 00		4h 11/20E			1800s
81	Comp			20 30				"	1s
82	HD26462	"	"	20 33 34		3h 42 E			1571
83	Comp			20 40				"	1s
84	BIAS(4)			21 02		3h 07			
85	HD26462	"	"	21 04		3h 07E			1800
86	comp			21 34				"	1s
ce10487/96	FLATS x10			00 01		3 h	+30°	TUNG	2s
97	BIAS(4)								

Spectr. Temp. ~~.....~~ Dome Temp./Hum. 0.8 / 74% Transparency Conditions High Cirrus, Hazy 25?

Focus 0.225

Spectr. Temp. -101.2°C Dome Temp./Hum. 0°C 80% H Solid Cloud by 22EST

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
55		4.13	F1V	18.00	5a 1st ord tilt 0.5635	60um	6520Å	12		Std Vel	
								3			
52 Sky counts		~~5.73~~	~~F4V~~	Wrong Star, N 1.6' from HD 26462. Cannot see it in finder though.				5	Hand on skyline	not VB14 airmass 4.52 2 IC cts above background	not VB14
								3			
								1			
72	4"	5.73	F4V					6		VB14 S/N ~ 140-150 airmass 3.20 at start	1.3
								3			
82	3"	"	"					6		airmass 2.48 at start cloud. S/N ~ 130-140	1.2
								2			
								1			
50		6	4					6		airmass 2.06 at start S/N ~ 30-35 50 cts above sky pad Cloudy! skyline?	
								3			
						60u = .277 60u = .205		3			12K
								1			

pg #1 Mon/Tues

Date 1995 Nov 20/21 Observers MK/JTn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC3708 3/4	Inboard					0 0	+45°	FeAr clear	60/60
85	BIAS(4)								
86	Comp								40
87	HD214946	22 36 12	+44 29 00	18 15 50		0 40 E			165
88	Comp								40
244/47	HD214946							4x	67ms
46/49	"					0 19 E		2x	133ms
89	Comp							FeAr clear	40s
90	HD177724	19 00 49	+34 25 3	18 50 15		3 27 W			55s
91	Comp							"	40s
92	Comp							"	40s
93	HD222368	23 05 03	+5 05 03	19 00 50		0 56 E			54
94	Comp							"	40
95	BIAS(4)								
96	Comp	At V 471 Position		19 13				"	40

CCD Spectr. Temp. -100.4C Dome Temp./Hum. +26°C 86-784 Transparency Conditions ... slightly hazy 25.6

Focus ... 6.85

Spectr. Temp. ... Dome Temp./Hum. ...

CCD Foot for stellar work ADC 460 0 7 1029 8 1 MAX

Exp. Mtr.	Seeing	Fl Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
CG530 Filter				CASSCCD	1800 lines G-6100	326u	6600A	1/2	focus	for Focus test 420 0 50 1029 4 1	
								1			
		B						3			3K
540		7.26	A5	(71° AZ 86° Alt For Seeing Test have 326u slit				4	~~Seeing~~	(stellar in 5th col out of 7)	1.8K
								5			
	3"	7.2							Seeing Test		
									" "		
								6			
3.8K		2.99	A0					7	Tellurics Std	1.67 Air mass	1.43
								8			
								9			
2.5K		4.13	F7V					10	Std vel		11K
								11			
								1			
								12			

pg#2 Mon/Tues

Emulsion Batches: .....

Date 1995 Nov 20/21 Observers MK. I.T.

Time note (ACER 1-2 secs Behind Astra clock)

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37097	FLAT							TUNG Ap1/4	4s
98	V471 Tau	03 44 43	+16 57 1	19 17 30		4 51E			60s
99	Comp								40
[cc37100/08]	V471 Tau			Repeat x 9 19 27 11	19 37 52	4 31 5E			57s
cc37109/17	"			Repeat x 9 19 42 36	19 53 09	4 16 4E			57s
118/23	"			19 60 55 09	≈ 20 01 30				57s
cc37124	Comp							FC Hr clear	40s
25	~~BIAS(4)~~ FLAT							TUNG Ap1/4	4s
26	~~FLAT~~ BIAS(4)							~~TUNG Ap1/4~~	
	~~BIAS(4) changed CCDEMT TO (420 0 50 1024 41) now~~								~~60s~~
	~~Comp~~								
	V471 Tau								
cc37127/28	J in board / out board			07 08		0 0	+32	FC Hr clear	60/60
cc37129	BIAS(4)								

Spectr. Temp. ..... Dome Temp./Hum. 4.2°C 86% Transparency Conditions ..Hazy..... 258...

Focus ....6.85..... usual 90 gain CCD Font

Spectr. Temp. ..... Dome Temp./Hum. ..... 89% clambda 460 0 7 1024 8 1 1MHz 4DG

Exp. Mtr.	Seeing	Pwr ✓ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASSCCD	1800 l/mm G=6100	30u	6600A	13			1.6A
	4"	9.4 -9.71	0.65 + KOX + wd					14		4th col 50 ADU ABOVE Background 2.44 Airmass.	
								15			
4, 22, 25	4"							16		Repeat 9 Using exp 57. BHT	
27, 2630	Bright light on 3710 exp seen on guider							17		some cloud "more" end of Repeat	
	3-5"							17		more cloud	
								18			
								19			
								1			
~~65~~		Too Cloudy to continue:						1			
								TB		CCD Font 1.70 0 50 1024 4 1	
T + 16°C		set 6.85						1/2			
								1			

pg #1

Date 1995 November 21/22 Observers Mk / Smt

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 37130/31	INBOARD/OUTBOARD							Fe Ar clear	60/60
32	BIAS(4)								—
33	COMP							"	60
34	BD+16 516	3 44 43	+16 57 06	1 41 02		1 52 W			911
35	"			1 56 51		2 09 W			908
36	"			2 13 12					900
37	"			2 28 34		2 40 W			900
38	COMP							Fe Ar clear	60
39-41	FLAT x 3							Tung Ry 4p	7
42	BIAS(4)			2 51					—
43	COMP							Fe Ar clear	60
44	HD21686	3 24 56	+10 59 37	2 58 24		3 19 W			300
45	COMP							"	60
46	COMP							"	"
47	HD 26162	4 03 20	+19 20 42	3 11 22		2 55 W			420
48	COMP							"	60

CCD Spectr. Temp. -100.4°C ... Dome Temp./Hum. +0.2°C / 68.6% Transparency Conditions partly cloudy ... SO ...

Focus ... 6.85 ...

CCD Spectr. Temp. -100.2°C ... Dome Temp./Hum. -0.7°C / 67.1%

FANS OFF

420 0 50 1024 4 1 ccd fast

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	max ADU Quality
On SO FILTER				CASS CCD	1800 ℓ/mm G=6100	30μm	6600 Å	3/4	focus test	in focus – close enough	
								1			
								5		** exposure meter on the fritz for a while. Fire after 1st 5m	
last 10m 230 ~~Rej~~	4"-5"	9.40 -9.71	0.65 K0V red		S/N ~ 70:1			6	MLi	3 vo above b/g V471 Tau, 1st series	
218		"	"		S/N ~ 40:1			7	"	a bit of cloud. 100 abao b/g	
260								7	"	thin cloud all over Increasing cloud, some holes 2 cosmic rays in spectrum	
222								7	"	more cloud. , a hole to end	
								8			
								9			11.1K → 10.8K
								1			
		5.14 ↓	A0V ↓					10		vsini = 236 ↓	
1100	5"-6"							11	Telluric Std.	cloud here, better at end.	1.5K
								12			
								13			
1050	5"-6"	5.50	K1III					14	Std. Vel.		2.0K
								15			

pg #2

Date 1995 November 21/22 Observers MKi/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CCD37149	BIAS(4)			3 27					—
50	COMP							FeAr clear	60
51	BD+16 516	3 44 43	+16 57 06	3 30 20					912
52	COMP							"	60
53-55	FLAT x 3							Jung V+A	7
56/57	INBOARD/OUTBOARD							FeAr clear	60/60

CCD
Spectr. Temp. -100.7°C Dome Temp./Hum. -0.8°C/67.1% Transparency Conditions cloudy but some thin spots

Focus 6.85 FANS OFF

Spectr. Temp. .... Dome Temp./Hum. -0.7°C/67.6% @ focus test 420 0 50 1024 4 1 ccdfast

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	max Quality
OG 560 FILTER				CASS CCD	1800 ℓ/mm G=6100	30μm	6600 Å	1			
								16			
198*		9.40-9.71	0.65* hgt + wd					17	Mki	cloud here * sky counts for V471 Tau, 2nd series	* <50% of blg.
								18		too much cloud to bother anymore. snow expected.	
								19			
								20/21	focus test		

263

pg#1 Tues/Wed

Date 1995 Nov 28/29 Observers Mk. J.T.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 37 159/54	Inboard/outboard Hartmann			~~17 44~~		0 0	+35°	Fdn clear	60/60
160	BIAS(4)								
161	Comp							Fdn clear	60
162	HD214946	22 36 42	+44 29 00	17 58 49		0 17E			756
163	Comp							"	60
CG80 250/253				18 20		0 06E		4x	67ms
CG80 254/55	HD214946	"	"					2x	133ms
cc 37 164	Comp							"	60
65	HD177724	19 00 49	+13 42 53	18 35 28		3 45W			
66	Comp							"	60
67	Comp							"	60
68	HD187691	19 46 14	+10 09 55	18 51 16		3 20 W			449
69	Comp							"	60
70	BIAS(4)			19 02					
71	Comp							"	60

CCD Spectr. Temp. −100.2°C Dome Temp./Hum. −5.2°C 76%H Transparency Conditions ... Part. cloudy, increasingly thick ... 264

Focus ... 6.90

Spectr. Temp. ... Dome Temp./Hum. ... C 8 420 050 1024 4 1 CCDFIXT MAX ADU

Exp Mtr	Seeing	P.V. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
T=5.2	−5.9by		18EST	CASS CCD *	1800 b/mm G=6100	306.	6600Å	3/4	focus Test		
OG 560 FILTER				* Presumably unchanged since Nov 21/22.		Grating Still disabled too.		1/2			
								5			3K
503	4-7"	B 726	A5					6	Bin 5 Bin	3 to 4 day period - Also Telescope encoder normalization star	400 ABOVE BIAS
						ABOVE 306 u SLIT		7			
	5.6"	"	"	88° AZ	62° AZ				Seeing Test	1.000 9 AIRMASS	
										NEFFIN on, Dome west, no wind, 1st day after storm.	
								8			
2700		2.99	AO Vn					9	Telluric Std	1.79 AIRMASS	
								10			
								11			
2500	6"	5.11	F8V					12	Std Vel	50 K photons (7200/1 S/N)	3.5K
								13			

2nd #2 Tues/Wed some [Blaj observations

Date . 1995. Nov. 28/29.. Observers . M.K. / I.T. .....

Emulsion Batches: .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 37172	Pu Vul	20 16 48	+21 15 00	19 17 52		3 23 W			832
73	Comp							Feat clear	60
74	Comp							"	60
75	HDE 235679	21 55 00	+54 00 00	19 40 28		2 18 W			1409
76	Comp							"	60
77	Comp							"	60
78	BM Cas	00 48 36	+63 33	20 11 58		0 10 E			1218
79	Comp							"	60
80	BIAS (4)								
81	Comp							"	60
82	Nova Cas 95	≈1995.5 01 04 55	+53 59	20 44 51		0 01 E			460
83	Comp							"	60
84/85	FLATS ×12							TUNG Apl/4	8s
96	BIAS (4)								
97	~~Comp~~ BIAS (4)			02 25					

CCD
Spectr. Temp. -100.4°C Dome Temp./Hum. -6.5°C 77%H Transparency Conditions Part. Cloudy

Focus 6.90

CCD
Spectr. Temp. -101.5°C Dome Temp./Hum. -6.8°C 77.5%H To very Cloudy

CD

MAX APH

Exp. Mtr.	Seeing	P.V. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
150	4"	≈10		CASSCCD	1800 b/mm G-6100	306	6600A	14	mk pgm	1.44 Airmass	85%
								15			
								16			
450	5"	8.96	B25Tb					17	Blu pgm	Airmass 1.075	1.3K
								18			
								19			
380	6"	8.82 -9.33						20	mk. pgm	Cloudy	
								21			
								1/3			
								22			
144		≈9						23		Hα	300 HDU
								24		ABOVE 13/14s	
								25			13K
								1/2	Topup @	01 EST	

26 Pg#3 Tues/Wed

Date 1995 Nov 28/29 Observers M.K. / T.n

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC37198	Comp							Feat clear	60s
199	BD+16 516	03 44 43	+16 57 06	02 39 17		W			900
37200	~~Comp~~ "	"	"	02 57 39				"	~~900~~ 600
01	"	"	"	03 10 05					963
02	"	"	"	03 26 37					900
03	Comp							Feat clear	60
04	FLAT							Jung Ap 1/4	8s
05	BIAS(4)								
06	BD+16 516	03 44 43	+16 57 06	03 46 30		4 25 W			901
07	"	"	"	04 01 54					507
08	Comp							Feat clear	60
09	FLAT							Jung Ap 1/4	8
10	Comp							Feat clear	60
11	HD 37509	7 39 12	+28 16 04	04 23 26		00 54 W			61
12	Comp							"	60
13/14	Inb / Out @ 0420					01 W	+22°	"	60/60

CCD
Spectr. Temp. -100.3°C Dome Temp./Hum. -7.7°C 74.5% Transparency Conditions. Partial Clearing

Focus ... 6.90

Spectr. Temp. ..... Dome Temp./Hum. -8.2°C 74.2% CCD

268 MAX ADU

Exp. Mtr.	Seeing	P.V. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
OG560	~~4~~			CASS CCD	1800 lines/mm G-6100	306u	6600Å	26			
345	4-6"	9.40 -9.71	KOV	+wd				27	V471 Tau	7 70/1 S/N	440 ABOVE BIAS
290	4-5							28		Part Cloudy 70/1 S/N	
~~370~~	3-5"							29			
370	"							6			
								7			
								8			1276K
								1			
375								9			
165	3-5							10		ended by some cloud	
								11			
								2			
								5			
7.8K		1.14	KOIII					6	Std Vel		
								7			
-8.1°C	6.90							30/31	focus Test		

28
#1 Mon/Tues

Date 1995 Dec 4/5 Observers Dby/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
Cc 372 15/16	Inboard/outBoard HdrTdAtm			17 52		0 25E	+45°	FeAr clear	60/90
17	BIHS(4)								
18	Comp							"	60
19	HD 214946	22 36 42	+44 29	17 4001		0 13E			711
Cc 37220	Comp							"	60
GC8025659	HD214946	22 36 42	+44 29	17 55				4x	.067ms
GC8066/61	"	"	"					2x	.133ms
Cc37221	Comp							FeAr Clear	60
22	HD 222368			18:09:47		0 50E			24
23	Comp							"	60
24	"							"	60
25	HD6397	00 59 49	+14 24 30	18:26:28		-1 44E	14° 55 9		
26	Comp							FeAr Clear	60
27	HD6397	00 59 49	+14 24 30	18:48:34		-1 23 8E	14° 55 9		992s
28	Comp							FeAr Clear	60

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. +00.5°C 48% H Transparency Conditions ... mostly clear ... 270

Focus ... 6.97 ... 90 cgam as usual AIR Pressure 1023 ↑

Spectr. Temp. ... Dome Temp./Hum. ... 420 050 1024 4 1 CCDFIMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG39 Filter				CRSCCD	1800k/mm G-9450	306	4310Å	3/4	Focus	set a bit too cool, but temp dropping fast	MAX HOLD
				G=0480				1/2			
								5			
2215	3"	B 7.26	SB2	ALT=89° (Above 306 slit)				4	Spec Bin	>100/1 S/N & Tel NORMALIZATION	1K
								7c		Light WNW wind Dome facing west	
				ALT=89°	Above	306	Slit		Seeing Test	Only NE Pier on Row	
								8			
11,002	4"	~~4.64~~	F7V					9	Std Vel	~ 200/1 S/N	3.5K
			[redacted]					10			
								11			
10,050		B 6.09	F4II-III					12	Dby	~ 200/1 S/N	5K
								13			
10,092		B 6.09	F4II-III					14	Dby		4.7K
								15			1K max

#2 Mon/Tues.

Emulsion Batches:

Date 1995 Dec 4/5 Observers Dby/Tn

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC37229	HD63977	00 59 49	+4 24 34	19:08:17		-1 6 50 E	14 55 12		479s
30	Comp							FeAr Clear	60s
31	Bias (4)			19 24					
32	~~HD204867~~ Comp							FeAr Clear	60s
33	HD204867	21 26 18	-06 00 40	19:31:49		~~5 36 6~~ 2 37 49 W	-5 36 6		114s
34	HD204867	21 26 18	-06 00 40	19:34:07		2 39 50 W	-5 36 6		116
35	HD204867	"	"	19:36:20		2 41 35W	-5 36 6		123
36	Comp							FeAr Clear	60s
37	Comp							FeAr Clear	60s
38	HD216131	22 45 11	24 04 25	19:45:34		1 32 49W	24 34 45N		130s
39	HD216131	"	"	19:48:02		1 35 53W	24 34 45		137s
40	HD216131	"	"	19:50:44		1 37 23W	24 34 45		122s
41	Comp							FeAr Clear	60s
42	"							"	"
43	HD10494	1 37 18	61 21 00	20:01:14		-0 ~~36~~ 11E	61 50 15		1788s

CCD
Spectr. Temp. -100.3 Dome Temp./Hum. +0.5°C / 42.3% H Transparency Conditions Mostly Clear 272

Focus 6.95

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~ C Lambda	P.H.	Program	Remarks	Quality
BG 39 GG495 10219	3"	B 6.09	F4 II-III	CCD @ D	1800 C 7480	300	4308	16	Dby		MAX ADU
								17			
								1/2			
								18			
10100	5"	B 3.74	G0Ib					19	Dby/Std.		2.9K
10100		B 3.74	G0Ib					19 ~~20~~	"		
11296		"	"					19	"		
								20			
								21			1.2K
10056		B 4.41	G8 III					22	Dby / Std.		4K
11000		"	"					22	"		
10300		"	"					22	"		
								23			
								24			0.9K
3576		B 8.52	F3Ia					25	Dby / Std	~ 100/1 S/N	1.2K

#3 Mon/Tues.

223

Date 1995 Dec 4/5 Observers Dby./Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC372 44	~~Comp~~ HD10494	1 37 18	61 21 00	20:31:40		-0 2 42E	61 50 21		1790
45	Comp							FeAr Clear	60s
46	Bias (4)			21:04:16					
47	Comp							FeAr Clear	60s
48	HD8890	1 22 34	88 46 26	21:11:10		-0 45 17E	89 14 15N		1665
49	HD8890	"	"	21:14:49		-0 42 57E	89 14 6N		1435
50	"	"	"	21:17:31		-0 39 39E	89 14 21N		1915
51	Comp							FeAr Clear	60s
52	Comp							FeAr Clear	60s
53	HD20902	3 17 11	49 30 19	21:31:44		-1 13 29E	49 51 54N		1375
54	"	"	"	21:34:16		-1 10 24E	49 51 57N		1815
55	"	"	"	21:37:43		-1 7 16E	49 52 0N		1685
56	Comp							FeAr Clear	60s
57	Comp							FeAr Clear	60s
58	HD45947	6 25 17	73 46 22	21:51:41		-3 39 29E	73 43 6N		1800s

CCD
~~Spectr.~~ Temp. -100.3 Dome Temp./Hum. -16°C / 42 % Transparency Conditions Clear - Increasing cloud

Focus 6.95

276

Spectr. Temp. Dome Temp./Hum.

ℓ Lambda

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
3163		B 8.52	FSIa	Cass CCD	1800/mm G.4480	30u	43/0	25	Dby/Std		Max Adu
								26			
								1/2			
								5			1K
10591		B 2.62	F7IIb-IIv					6	Dby		5K
10368		"	"					6	"		
10543		"	"					6	"		4.1K
								7			1K
								8			
13766		B 2.27	FSIb					9	Dby/Std		6.6K
13830		"	"					9	"		
13601		"	"					9	"		
								10			
								10			
5829		B 6.62	F2					11	Dby		2.6K

275

#4 Mon/Tues.

Emulsion Batches:

Date 1995 Dec 4/5 Observers Dby./Tn

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
cc37259	Comp							FeAr Clear	60s
60	HD45947	6 25 17	73 46 22	22:25:22		3 06 E			1800
61	Comp							"	60s
62	HD45947	"	"	22 58 17		-2 32 38 E	73 43 3N		1800s
63	Comp							"	60s
64	BIAS(4)								
65	Comp							FeAr Clear	60s
66	HD65301	7 52 58	59 19 08	23:36:48		-3 17 22 E	59 3 45N		1800s
67	Comp							FeAr Clear	60s
68	HD65301	7 52 58	59 19 08	00:09:50		-2 48 14 E	59 3 45N		1555s
69	Comp							FeAr Clear	60s
70	HD65301	7 52 58	59 19 08	00:39:44		[illegible]			1484s
71	Comp							FeAr Clear	60s
72	Bias(4)			01 07					
73	Comp							FeAr Clear	60s

CCD
~~Specto~~ Temp. -100:3 Dome Temp./Hum. -2:0/+45 Transparency Conditions Clouding over 22

Focus 6:95

Spectr. Temp. Dome Temp./Hum. ε Lambda

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
BG39 Filter				1800/n/mm G=4480	CASS CCD	300μ	4310Å	13			Max Adu 1K
5600	3"-4"	B 6.62	F2					14	Dby	(150/1 S/N)	2.6K
								15	"		
4499	4"							16	Dby		2.6K
								17			
								42			
								18			1K
10253		B 6.16	F2V					19	Dby		4.7K
								20			
10148		B 6.16	F2V					21	Dby		4.1K
								23			
10020		B 6.16	F2V					24	Dby		5.5k
								26			

#5 Mon/Tues.
287

Date 1995 Dec. 4/5 Observers Dby/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC37274	HD62140	7 37 24	63 04 18	01:13:08		-1 22 36 E	62 51 33N		1800s
75	Comp							FeAr Clear	60s
76	HD62140	7 37 24	63 04 18	01:46:28		-0 51 6 E	62 51 33N		1846s
77	Comp							"	60s
78	Bias(4)								
79	Comp							FeAr Clear	60s
80	HD83808	9 35 49	10 20 50	02:26:50		-2 25 17E	9 53 42N		617s
81	"	"	"	02:37:38		-2 17 12E	9 53 39N		487s
82	"	"	"	02:46:18		-2 8 34E	9 53 39N		415s
83	Comp							FeAr Clear	60s
~~84~~	~~Comp~~								
CC37284/93	Flats x10					0 0	+18°	TUNG Aperture	33s
94	BIAS(4)								
95/96	Inboard/Outboard	Hartmann				"	"	FeAr Clear	60/90

CCD
~~Spectr.~~ Temp. -100.5 Dome Temp./Hum. -2.2/+70.2% Transparency Conditions Clouding over 27.8

Focus 6.95

~~Spectr.~~ Temp. -101.4°C Dome Temp./Hum. 3.4° 72% Clouds

Exp. Mtr. 62.39	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
5990		B 6.75	FOpSrEu	CASS CCD	1800/m/mm G = 4480	30μ	4310Å	28	Dby	~ 200/1 S/N	Max Adu 4.6K
								5			
2757	3"	B 6.75	FOpSrEu					6	Dby	Clouding over bad.	
								7			
								1/2			
								7			
10100		B 4.01	F6II + A1V					8	Dby	≈ 200/1 S/N	5.2K
10100		"	"					9	"		
10028		"	"					10	"		
								13		4416Å at red end of range Prob 4415.8 exactly	
								~~15~~			
								17			14K
								1/2			
								3/4	focus		
		All to Kerseus & F To CD ROM									

pg #1 Wed/Thurs

Date 1995 December 6/7 Observers [Blu]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc3729~~6~~/~~98~~	INBOARD/OUTBOARD					=0 0	+45°	FeAr clear	40/70
~~96~~	~~BIAS(4)~~			17 53	Returned				—
99	Comp							"	60s
cc37300	HD214946	22 36 42	+44 29 00	20 35 25		3 09 W			1854
01	Comp							"	60s
02	BIAS(4)			21 09					—
03	Comp							"	60s
04	HD210459	22 05 33	+32 41 15	21 14 21		3 56 W			392
05	Comp							"	60
06	Comp							"	60
07	HD154528	17 00 54	+77 48	21 31 13		10 00 W			2400
08	Comp							"	60
09	BIAS(4)			22 16					—
10	Comp							"	60
11	HD37017	05 30 25	-09 33 36	22 29 48		01 57 E			1446
12	Comp							"	60

Spectr. Temp. -100a °C Dome Temp./Hum. -3.1°C / 44.8% Transparency Conditions clearing - cloudy etc.

Focus 6.95 90c gain 280

Spectr. Temp. Dome Temp./Hum. -5.0°C 56.5% 420 0 50 1024 4 1 ccdfast

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	MAX 480 Quality
B=39 Dark				CASS CCD	1800 l/m G=4586	30μm	4464Å	3/4	focus test	set just a bit cool, cooling overnight, thought clouded in & snow.	MAX 494
								1/2			
								5			4.3K
7400	3-4"	7.26	A5					6	f/n 5 Bin	> 200/1 S/N	3.7K
								7			
								7.2		CCDT = -100.5°C	
								8			
21K		4.75	F5 II					9	A- shell B/n	> 300/1 S/N	9+K
								10			
								11			
12.6K	8"	V 6.66	A0					12	SB 2 B/n	strong col is 27, hot on 26 Telescope East side > 300/1 S/N	7.2K
								13			
								1			
								14		Full Moon 20° N of α Ori	
10800	5"	6.42	B2 V p					15	He Rich B/n		
								16			1.3K

Pg #2 Wed/Thurs

Date 1995 Dec 6/7 Observers [illegible]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37313	Comp							FeAr clear	60
14	HD 37468	5 3344	-023928	23013		1 49 E			307
15	Comp							"	60
16	ADS4241D	5 3342	-02 3912	23 0659		1 22 E			1529
17	Comp							"	60
18	HD 37468	5 3344	-023928	23 3650		1 14 E			
19	Comp							"	60
20	BIAS(4)								
CG8026	HD29587	4 3430	+415700	2350				4x	67 sec
CG8026	"				23 52	0 04 E	88° Alt.	2x	133 sec
cc37321	COMP							FeAr clear	60
22	HD29587	4 3430	+41 57	23 56 04		0 26 W			1620
23	COMP							"	60
24	BIAS(4)			0 26					—
25-44	FLAT x 20					0 03 E	-14°	Tungsten clear	22
45/46	INBOARD/OUTBOARD					0 03 E	+32°	FeAr clear	40/70

CCD
Spectr. Temp. −100.4 °C Dome Temp./Hum. −4.9°C 57.6% Transparency Conditions Mostly clear

Focus 6.95

Spectr. Temp. Dome Temp./Hum. −5.3°C / 59.8% @seeing test N FAN ON

420 0 50 1024 4 1 CCDFLAT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Mon. AND Quality
BC-39				CASS CCD	158 l/mm G=4586	306u	4464	17			
14K	4"	B 3-57	O9.5V					18	Blue pgm	≈ 300/1 S/N	~~5K~~
								19			
13K	4.5"	B 6-3	B2V					20	Blue pgm	≈350/1 S/N guided with HD33468 off West slit	5K
								21			
14K		B 3-57	O9.5V					18			
								22			
								1/2			
	3-4"	V 7.29	dG2	KPNO CCD TV GUIDER		above 306u		—	Seeing test	Clouding in with medium W wind	
								—			
				CASS CCD				23			
3330	3"	V 7.29	dG2					24	Std. Vel	through cloud.	15K
								25			
								1			
								26		dome closed NOW – cloud too thick	14.1K → 12.8K
								314	focus test	5K drop from raw 1 to raw 1024, 4K @ end	

Obg #3 Wed/Thurs

Date 1995 December 6/7 Observers [Bln]/Tn/Smt

Emulsion Batches: / / /

CCD
Spectr. Temp. -120.7°C Dome Temp./Hum. -5.1°C / 59.0% Transparency Conditions mostly cloudy, clearing
Focus 7.07 (@ focus test N FAN ON
Spectr. Temp. ____ Dome Temp./Hum. -5.9°C / 62.2% ~470'050 1024 4 1 ccdfmt ADC MAX

Exp. Mtr.	Seeing	Ptg Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG 39 FILTER				CASS CCD	600 gr/mm (c) G=2683	250μ	4300 Å ± 1 Å	3/4	focus test	ik focus now.	
								1			
								5			
1400	4"	V 7.29	1G2					6	Std. Vel	~160/1 S/N same one as earlier tonight	3.3K
								7			
								8			
2570	5"	B 5.15	O6ep?					9	Blu-O star	some cloud	5.5K
								10			
								11			
5,200	5"	B 2.53	09III					12	Blu-O star	cloudy	15K
								13			670
								14			
5,700		1.54	09.5Ib					15			15K
								16			
								17			

pg #4 wed / Thurs

Date 1995 Dec. 6/7 Observers [illegible] / Jn / Sust

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37363	HD47432	06 33 30	+10 42 03	02 43 50		0 59 W			536
64	Comp							E4 clear	20s
65	Comp							"	20s
66	HD52266	6 55 24	−05 40 00	02 57 51		0 59 W			970
67	Comp							"	20s
68	BIAS(4)			3 16					—
69	COMP							"	20
70	HD48099	6 36 37	+06 26 25	3 20 29		1 34 W			600
71	COMP							"	20
72	COMP							"	20
73	HD46966	6 31 06	+6 10	3 36 29		2 02 W			950
74	COMP							"	20
75	COMP							"	"
76	HD52533	6 56 30	−2 59	3 59 48		2 15 W			1830
77	COMP							"	20

Spectr. Temp. ..... Dome Temp./Hum. -6.0°C/61.3% Transparency Conditions Mostly cloudy → clearish but we don't care.

Focus 7.07

Spectr. Temp. ..... Dome Temp./Hum. .....

470 0 50 1024 4 1 cold

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
2950	4"	6.36	09.7 V	CASS CCD	600C G=2633	250μ	4300Å	18	Bln O star		8K
								19			
								19			
2425		7.20	09 IV n					20	Bln O star	clear here.	5 OK
								21			
								1			
								22			
3200	4"	6.33	07 V					23	Bln O-star	a bit cloud here.	
								25			
								27			
2940		6.84	06 V					28	Bln O-star	clear at start but some cloud soon afterwards	6.8K
								29.			
								5			
2775	5"-6"	7.61 ~~7.61~~ 7.61	~~08.5 V~~ 08.5 V					6	Bln O-star	brighter southern star of a N-S pair	5.8K
								7			

pg #4

Date 1995 December 6/7 Observers [Bln]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc3738	COMP							Fe Ar clear	20
79	HD46241	6 27 01	+4 55 40	4 37 40		~3½ W			406
80	COMP							"	20
81	COMP							"	20
82	HD46223	6 27 00	+04 53 00	05 02 38		~3 45 W			1530
83	Comp							"	20
84	BIAS(4)			05 30					
85	Comp							"	20
86	HD46150	6 26 36	+5 00	5 33 56		4 01 W			821
87	Comp							"	20s
88	COMP							"	20
89	HD47839	6 35 28	+9 59 18	5 52 11		4 03 W			333
90	COMP							"	20
91	~~BIAS~~ COMP							"	"
92	HD89449	10 14 18	+19 58 42	6 03 12		0 33 W			210
93	COMP							"	20

Spectr. Temp. ..... Dome Temp./Hum. -6.6°C / 60.8% Transparency Conditions ... clear-ish, partly cloudy

Focus ..... 7.07 .....

Spectr. Temp. ... -10.2.0°C ... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				435 CCD	600 11.5° G=2683	250μ	4300Å	8			
		B 6.63	kOIII					9	no one's	intended to do HD46223 accidentally done, field wrong?	
								10			
								12			
2000	5"	B 7.47	O4I(f)					13	Bln O-star	field corrected.	6.6K
								14			
								1			
								14			
1450	5"	B 6.86	O5V((f))					15	Bln O-star	same field as 046223, partially obstructed by dome/platform & thick cloud.	4.8K
								16			
								17			
4990	6'-7"	B 4.40	O7I((f))					18	Bln O-star	close to platform	15.1K
								19			
								20			
5590	5"	V 4.79	F6III					23	~~Bln O-star~~	Std. Vel.	15K
								24			

Pg #5

Date 1995 December 6/7 Observers [Bln]/Tn/Smt

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
c37394 →c37413	FLAT x 20					0 37 W	+19°	Tung clear	6
414	BIAS(4)								
415/416	INBOARD/OUTBOARD					4	4	FeA clear	20/40

Speetr.
Focus.
Spectr.
Exp. Mu
T-

CCD
Spectr. Temp. -102.0°C Dome Temp./Hum. -6.7°C / 62% Transparency Conditions . starting to cloud in 2hr

Focus 7.07

Spectr. Temp. ..... Dome Temp./Hum. .....

4700 0 50 1028 4 1 ccd list

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
T = -6.6°C				CASS CCD	600 l/mm (c) 6° 26'83	250μ	4360 Å	2			14.2K →
								1			
-6.6°C								3/4	focus test		

Night #1 Thurs / Fri

Date 1995 December 7/8 Observers [Blu] / Tn / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
cc 374 17/18	Inboard / Out Board					0 0	= +40	FeAr clear	20/40
19	BIAS(4)			17 22					
20	Comp							FeAr clear	20
21	HD193322AB	20 14 34	+40 25 13	17 27 35		2 05 W			450
22	Comp							"	20
23	Comp							"	20
24	HDE 226868	19 54 36	+34 56 00	17 40 28		3 15 W			2721
25	Comp							"	20
26	Comp							"	20
27	HD190429A	19 59 48	+35 45 00	18 31 41		3 28 W			715
28	Comp							"	20
29	BIAS(4)			18 45					—
30	COMP							"	20
31	HD190864A	20 01 54	+35 19	18 49 04		3 56W			
32	COMP							"	20

CCD Spectr. Temp. ...-101.5°C... Dome Temp./Hum. ...-9.1°C 57.7%H... Transparency Conditions ...PART. CLEAR... 292

Focus ...7.07...STILL... FANS OFF

Spectr. Temp. ..... Dome Temp./Hum. ...-6.3°C 68.4%H... 470 0 50 1024 4 1 CCDFAST MAX ADU

Exp Mtr.	Seeing	Ptg Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
BG 34 Filter				CASSCCD	600 l/mm G 2683	25μ	4300Å	3/4			
								1/2			
								5			
3100	4"	5.94	O9I (cn)					6	Bln O star	Faint comparison spectra to SW ~300/1 S/N ≥ 5" separation	8.0K
								7			
								8			
1295	4"	9.74	O9.7Iab					9	O-star & SB Bln	Cyg X-1	2.3K
								10			
								11			G10
3000	5"	7.08	O4If+					12	Bln O-star		6.1K
								13			
								1			
								14			
3150	4-5"	7.96	O6.5III(f)					15	Bln O-star		7.5K
								16			

93 Pg #3

Thurs/Fri

Date 1995 Dec 7/8 Observers [illegible]/Jn./Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC37433	Comp							Fe/Ar Clear	20s
34	HD192281	20 09 00	+39 58 00	19 22 28		4 17 W			1153
35	Comp							"	20s
36	BIAS(4)			19 44					
37	Comp							"	20s
38	HD195592	20 27 12	+43 59 00	19 52 19		4 29 W			1130
39	Comp							"	20s
40	COMP							"	"
41	HD199579	20 53 03	+44 32 24	20 16 28		4 13 W			300
42	COMP							"	20
43	COMP							"	"
44	HD 206183	21 35 18	+56 32	20 27 56		3 53 W			932
45	COMP							"	20
46	BIAS (4)			20 45					—
47	COMP							"	20

CCD Spectr. Temp. −102.1°C ... Dome Temp./Hum. −6.5°C/69.1% Transparency Conditions OK 24

Focus 7.07 ... Dome Temp./Hum. " FANS OFF

Spectr. Temp. ... 490 0 50 1024 4 1 ccdfast.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
8639.				CAMS CCD	600 W/mm G-2683	250u	4300?	17			
2945	3"	7.93	05 V	n((f))p				18	B/n O star	Field Drawn	6.7K
								19			
								1/2			
								20			
3030	3"	7.95	097 Ia					21	B/n O star		5.5K
								22			
								23			
3380	3-4"	5.965	06 V					24	B/n O-star		8.6K
								25			
								26			
3050	4"	7.54	095 V					27	B/n O-star	a couple of very faint "companions"	6.7K
								28			
								1			
								29			

gpg # 3

Date 1995 December 7/8 Observers [Bln]/Tn/Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
Cc 37448	HD 206267	21 35 51	+57 02 12	20 50 07		4 03 W			224
49	Comp							RA Clear	20
50	Comp							"	4
51	HD 207198	21 42 08	+61 59 59	20 59 52		4 08 W			300
52	Comp							"	20
53	COMP							"	"
54	HD 209975	22 02 04	+61 47 36	21 10 29		3 56 W			120
55	COMP							"	20
56	COMP							"	"
57	HD 207538	21 44 36	+59 14	21 17 39		4 36 W			1035
58	COMP							"	20
59	BIAS (4)			21 39					—
60	COMP							"	20
61	HD 210809	22 07 54	+51 56	21 41 54		4 41 W			1360
62	COMP								

CCD

Spectr. Temp. −102.4 °C Dome Temp./Hum. −6.4°C / 69.1% Transparency Conditions ... clear ... 29½

Focus ... 7.07 ...

Spectr. Temp. ... Dome Temp./Hum. −6.9°C 71.5% H FANS OFF

470 0 50 1024 4 1 c-d Cat

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG 39 3.450	3"	5.83	06.5V	CAES CCD	600 21=(6) G=2683	25μ	4300	30	BL 0*		8.7K
								5			
								18			
3200		6.27	09.5V					12	Bln O star	close to N pier	9.0K
								13			
								14			
3300	3.4"	5.19	09.5Ib					15	Bln O-star		9.6K
								16			
								17			
3050	3"-4"	7.64	09.0V					18	Bln O-star	close to N pier	6.2K
								19			
								1			
								20			
2895	3"-4" → 8"	7.59	09Ib					21	Bln O-star	seeing exploded after 15m of exposure - cloud coming and passing through	6.3K
								22			

pg #4

Date 1995 December 7/8 Observers [Bln]/Tn./Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37463	COMP							Feat clear	20s
64	HD108	0 00 54	+63 07	22 09 54		3 07 W			900
65	COMP							"	20
66	COMP							"	"
67	HD218915	23 06 42	+52 31	22 29 36		4 22 W			914
68	COMP							"	20
69	BIAS (4)			22 47					—
70	COMP							"	20
71	HD29139	4 36 11	+16 18 30	22 54 33		0 50 E			123
72	COMP							"	20
73-92	FLAT x20					0 07 E	-35°	Turq clear	6
93/94	Inboard / Outboard Hartmann			01 25		0 0	+28	Feat clear	40/80

Spectr. Temp. −10.7 °C Dome Temp./Hum. −7.0°C / 71.5% Transparency Conditions . . . Some cloud, thin snow 2578

Focus 7.07

Spectr. Temp. ..... Dome Temp./Hum. −6.1°C / 72.0% Dome closed FANS OFF 470 0 50 1024 4 1 crdfast

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG 39 FILTER				CASSCCD	600 l/mm G2 2683	250u	4300A	23			
2500	5"	7.58	O6:f?					24	Bln O-star	very close to S pier some light around slit from S pier lights.	5.8K
								25			
								26			
2560	4"	7.20	O9.5Iab					27	Bln O-star	cut short by impenetrable cloud.	6.1K
								28			
								1			
								29			
3620	?	0.85	K5 III					6	Std. Vel.	EXTREMELY THICK CLOUD cosmic rays in spectrum spectrum heavily sloped.	~9K
								7			
								2		Dome closed.	14K
T= −6.1 F= 70%								3/4		Right on @ Row 215	
										snow in air but sort of clear except for snow haze	

Mon/Tues pg#1

Emulsion Batches:

Date 1995 Dec 11/12 Observers [Bln] Tu

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc374 95/96	Inboard / outBoard Horizontal			17 50		0 11W	+31	FEA clear	60/60
97	BIAS(4)			18 02					
98	Comp							"	60
99	HD217675	22 5719	+41 4719	18 085		0 11 W			61
cc37500	Comp							"	60
01	Comp							"	60
02	HD186205	19 3754	+08 59	18 2313		4 19W			2123
03	Comp							"	60
04	BIAS(4)			19 01 41					
05	Comp							"	60
06	HD184606	19 3011	+19 3318	19 07 58		4 45W			484
07	Comp							"	60
08	Comp							"	60
09	HD235679	21 5500	+57 00 00	19 39 44		3 06W			1866
10	Comp							"	60
11	BIAS(4)			20 10					

CCD Spectr. Temp. −101.9 °C Dome Temp./Hum. −8.1°C 59.2% Transparency Conditions clear, a bit gusty

Focus 6.94 90 cgum as usual 300

CCD Spectr. Temp. −102.3 °C Dome Temp./Hum. −12.0°C 67.5%

426 0 50 1024 4 1 CCDEMIT

Exp. Mtr.	Seeing	Pix Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
OG 560 Filter				CASS CCD	1200 l/mm G: 6128	306μ	* @ 512 6604-8 exactly	3/4	focus test		
								1/2			
								5			
1408	6"	3.67	B6					6	Telescope encoder recalibration star	200/1 S/N	2.3K
								7			
								8			3.4K
1085	6-10"	8.43	B2V		exposure meter Balance Check (looks good) no adjustment needed.			9	He star Bin	Air mass 2.02	1.1K
								10			
								1/2			
								11			3.4K
3850 (6-10")		5.00	B6III m					12	Telluric Std	Air mass 2.12	4.4K
								13			
								14			
1140	6"	V 8.46	B2.5Ib					15	Sp Bin A/M	Air mass 1.15	CHd 5K
								16			
								1			

301 P42 Mon/Tues

Date 1995 Dec 11/12 Observers [Blo] T.G.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CG802 68/71	HD 6314	00 58 59	+39 27 18					4x	67ms
72/73	"	"	"			0 16W		2x	133ms
CC37512	Comp							Fear Clear	60s
B	HD 6314	00 58 59	+39 27 18	20 19 53		0 36W			1019
14	Comp							"	60s
15	Comp							"	60s
16	BM Cas	00 48 36	+63 33 00	20 44 52		1 08 W			873
17	Comp							"	60s
18	Comp							"	60s
19	Nova Cas 95	01 04 55	1995.5 +53 59	21 07 00		01 17W			
20	Comp							"	60s
21	BIAS(4)			01 22					
22	Comp								
23	HD 14386	02 14 18	-03 25 54	21 29 45		0 19W			958
24	Comp								

CCD
Spectr. Temp. -100.5°C Dome Temp./Hum. -12.0°C 6% Transparency Conditions mostly clear 3m

Focus 6.94

Spectr. Temp. Dome Temp./Hum.

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	ALT = 86°			CASS CCD	1800 l/mm G = 6108 Above 30μ SLIT	30μ	6604, 8A		Seeing Test	Dome WSW	
	* Software problem prevented Import to Header.								very cold, STRONG WNW wind		
0G560 F1Hα								17			
3540 4-6'		657	FOV					18	Telluric Std	Air mass = 1.005	5.8K
								19			
								20			Hdem
770	5" - 8-27 9.33		Hdem					21	Mk. pgm		6.4K
								22			
								23			
990	5"-8-59							24	Mk. pgm		7.8K
								25			
								1/2			
								26			
2100		8?						27	Rg pgm	Although H pole preferred	2.2K
								28		(Only slightly brighter Than neak by field star)	

Pg#3 Mon/Tues

Date 1995 Dec. 11/12 Observers [BH] TH

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37525	Comp							Fetr clear	60s
26	HD18884	2 57 03	+03 41 51	21 ~~55 06~~ 44 09		0 14 E			27s
27	Comp							"	60s
28	Comp							"	60
29	HD 22484	3 31 46	+00 05 04	21 57 02		~~0 E~~			124
30	Comp							"	60
31	Comp							"	60
32	Iris	04 10 07 (1995.9)	+27 32 19	22 12 50		0 44 E			557
33	Comp							"	60
34	BIAS(4)			22 04 28					
35	Comp							"	60
36	HD 34759	5 14 44	+41 42 17	22 29 13		1 39 E			570
37	Comp							"	60
38/67	FLATS x 20					1 30 E	+42	Tung Ap 1/4	8s
58	BIAS(4)								

Spectr. Temp. ..... Dome Temp./Hum. −123°C 6*3%H Transparency Conditions ... Slightly hazy 30%

Focus ... 6.99 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

MAX HOU

Exp. Mtr.	Seeing	Pwr Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
OG-376 Filter				CASS CCD	1800 L/mm G=6108	306	6604 8A	5			
		3.53	M1.5 III a					6	std vel	fast guided	7.7K
								7			
			F9 IV-V					8	std vel		
3300		4.28	F9 IV-V					9	std vel		5.8K
								10			
								11			
1200	5"	7.2	F2	G2 V				12	minor planet for std vel use		2.2K
								13			
								1/2			
								14			
5650	6"	5.09	B5 V					15	B/w pgm		9K
								16			3.2
								29			12.3
								1/2			

6
pg#4 Mon/Tues

Date 1995 Dec 11/12 ... Observers [Bla.] ... Tu .....

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC37559	Comp							Feather Jean	60s
60	HD120315	13 43 36	+49 48 45	00 07 45		8 31 E			67s
61	Comp							"	60
62	HD120315	"	"	00 19 05		8 21 E			72
63	Comp							"	60
64	Bills (4)								
65/66	Inboard / outboard			01 55		0 0	+35°	Feather Jean	60/60

Spectr. Temp. ..... Dome Temp./Hum. -12.2°C 56% Transparency Conditions ... Part. Cloudy ... 30%.

Focus ... 6.94 .....

CCD
Spectr. Temp. -101.3 °C. Dome Temp./Hum. -12.3°C + 70%24

Cumbla

Exp. Mtr.	Seeing	Mag	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
OG-580 F.1Hz				CASSCCD	150 w/mm G=6108	306.	66GF	17			
~ 600		1:86	83V					18	B/w pgm	very clear here Air mass 4.3	6K
								19			
7000	15"	"	"					18	B/w pgm	Hi mass 4.0	8.4K
								19			
								1/2			
								10/11	focus	nice & cold one	
		Only to F:/CD-Rom and kept on E: for now.									

Pg #1 Tue/Wed.

Date 1995 December 12/13 Observers [Bln.] / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
cc37567/68	INBOARD/OUTBOARD							FeA clear	60/60
69	BIAS(4)			17 34					—
70	COMP							"	60
71	HD186205	19 37 54	+8 59	17 43 52		3 50 W			244
72	COMP							"	60
73	BIAS(4)			18 31					—
74	COMP							"	60
75	HD184606	19 30 11	+19 33 18	18 35 14		4 13 W			300
76	COMP							"	60
77	COMP							"	60
78	HD235679	21 55 00	+54 00	18 49 15		2 32 W			2010
79	COMP							"	60
80	BIAS(4)			19 27					—
81	COMP							"	60
82	HD211211	22 10 32	+42 27 28	19 36 15		2 34 W			300
83	COMP							"	60

Spectr. Temp. -100.1°C ..... Dome Temp./Hum. -7.3°C/64.6% @ focus test Transparency Conditions ..clear, a few clouds.. 30⁸

Focus .....6.94.....

Spectr. Temp. 90.0 again ..... Dome Temp./Hum. -8.5°C/67.5% @ Telluric Std. FANS ON

412 0 50 1024 4 1 ccdfast

Exp. Mtr	Seeing	V Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	max ADU Quality
0.6 sec FILTER				CASS CCD	1800 2/mm G=6108	30μm	6605Å	3/4	focus test	set a bit cool, T dropping	
								1			
								5			
2120	5"	8.43	B2V					6	Bln He-star		3.5K
								7			
								1			
								8			
6550	5"	5.00	B8III$_n$					9	Telluric Std.		11K
								10			
								11			
1600	3"	8.96	B2.5Ib					12	Bln SB	dbl peaked Hα emission 3-4 tones continuum, redder peak is stronger	3K continuum 10.3K Hα emission
								13			
								1			
								14			
3030	4"	5.68	A2Ivnn					15	Telluric Std.	same airmass as HD235679. ~1.12	7.5K
								16			

pg #2

Date 1995 December 12/13 Observers [Blin] / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CG80274 → 77	HD3765 x4	0 35 18	+39 40						.067
78/79	" x2				19 50	0 17 W	85° Alt		.133
cc37584	COMP							Feather clear	60
85	HD3765	0 35 18	+39 40	19 55 56		0 29 W			400
86	COMP							"	60
587-606	FLAT x 20							Twy ¼ Apo	7
cc37607/8	INBOARD/OUTBOARD					0 34 W	+40°	Feather clear	40/70
09	BIAS(4)			~~20~~ 21 11 7					—
10	COMP							"	60
11	HD210459	22 05 33	+32 41 15	21 14 23		4 19 W			385
12	COMP							"	60
13	COMP							"	"
14	HD214946	22 36 42	+44 29	21 29 44		4 32 W			2100
15	COMP							"	60
16	BIAS(4)			22 07					—

Spectr. Temp. -100.3°C Dome Temp./Hum. -9.1°C/67.7% Transparency Conditions. clear, a few clouds 310
Focus 6.94/7.05 @ seeing test N FAN ON ONLY
Spectr. Temp. ..... Dome Temp./Hum. -9.5°C/69.1% @ focus test 412 0 50 1024 4 1 ccd Lick

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4"	V 7.36	dK5	EEV CCD TV GUIDER		Above 30μm		—	seeing test	Dome W, no wind, clear 56% on catwalk	
	"			"				—	"	1st 2 done off centre of slit.	
BG 560 FILTER				CASS CCD	1800 Dlm G=6108	30μm	6605Å	17			
1400	4"-5"	V 7.36	dK5					18	Std. Vel	done while writing down seeing test info.	3.0K
								19			
								20			11.4 710.3K
BG 39 FILTER								3/4	focus test	set a bit cool. T=-9.5°C F=7.05	
								1		GPIB error & resets. focus test redone, fine.	
								5			
13.7K	5"	B 4.75	FSIII					6	Bln A shell	a bit of cloud.	5.5K [illegible]
								7			
								8			
5.7K	4"	B 7.26	A5					9	Bln SB2	some more cloud then clear	2.6K
								10			
								1			

pg #3

Date 1995 ~~December~~ 12/13 Observers [Bln] / Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37617	COMP							FeA clear	60
18	HD222368	23 34 48	+5 05 03	22 14 52	~	4 30 W			400
19	COMP							"	60
~~20~~	~~COMP~~							"	"
—	~~HD37017~~	5 30 25	-4 33 36	22 31 04		1 24 E			1920
—	~~COMP~~							"	60
20	BIAS(4)			23 13					
21	COMP							FeA clear	60
22	HD37017	5 30 25	-4 33 36	23 20 43		0 36 E			1800
23	COMP							"	60
24	COMP							"	"
25	AD54241 HD37468 } AB	5 33 44	-2 39 28	0 01 19		0 25 E			205
26	COMP							"	60
27	AD54241 HD37468 } D	"	"	0 08 23		0 08 W			1800
28	COMP							"	60

CCD
Spectr. Temp. -100.4°C Dome Temp./Hum. -9.8°C / 70.1% Transparency Conditions ~1 ... few clouds ... 312
Focus 7.05 N FAN ON
Spectr. Temp. ... Dome Temp./Hum. -11.4°C / 73.0% @ end of HD3 74650 412 0 50 1024 4 1 ccd/int

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG 39 FILTER				CASS CCD	1800 l/mm G=4592	30μm	4465Å	11			
13.6K	4"6"	4.13 ✓	F7V					12	Std. Vel.	close to platform	4.7K
								13			
								~~14~~			
11.8K	6"	B 6.42	B2V$_p$					15	He-rich	LOST due to GPIB failure and necessary resets !!!	
								~~16~~			
								1			
								3			
12.5K	4"-5"	B 6.42	B2V$_p$					4	He-rich Bln		6.4K
								5			
								6			
14.5K	4"-5"	B 3.57	O9.5V					7	Bln dbl star	tried to guide on slit centre and with D off slit	7.2K
								8			
11.3K	5" → 7" Seeing blew up at 11005 mark → 13305	B 6.3	B2V					9	Bln dbl star. ?	guided with AB off of slit, centred on column 39. There is a little bump in profile from column 40-42, most likely stray light from AB.	5.2K
								10			

pg #4

Date 1995 December 12/13 Observers [Bln] /Smt

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37629	BIAS (4)			0 42					—
30	COMP							Fe Ar clear	60
31	HD 36079	5 23 58	-20 50 21	0 51 40		0 35 W			150
32	COMP							"	60
33	COMP							"	"
34	HD 154528	17 00 54	+77 48	1 15 52		10 12 E			1200
35	COMP							"	60
36	BIAS (4)			1 40					—
37-45	FLAT x 9					0 02 W	+41°	Tung clear	22

CCD Spectr. Temp. -101.9 °C Dome Temp./Hum. -11.3°C/73.0% Transparency Conditions: a few clouds ...314...

Focus ...7.05... N FAN ON

Spectr. Temp. ... Dome Temp./Hum. ... 412 0 50 1024 4 1 coadfrnt.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
BG 39 FILTER				CASS CCD	1800 l/mm G=4592	30bm	4465 Å	1		a cosmic ray on top row.	
								11			
15.2K	5"	V 2.84	G5III					12	Std Vel	β Lep.	6.3K
								13			
								14			
7.8K	4"	V 6.66	A0					15	Bln SB2	deltas very close to zero! no other stars close, but spectrum looks late. no time to search for others	
								16			
								1			
								17		backup running out @ 2:00 EST	

Date 1995 Dec 13 Observers KK/SwT

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE10498	Hartmann – IN							ThAr	1
10499	-OUT							ThAr	1
10500	Bias								
	1995 Dec 16/17	For focus tests of Hm1			Region.	SAT/SUN			
CE10501	HARTMANN - in							ThAr	1
502	-OUT					2 50W	+11°	"	1
1									

Spectr. Temp. ..... Dome Temp./Hum. −7.8 66% Transparency Conditions. quickly clouding in 3/6

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. 0 0 256 1029 4 1

Exp. Mtr.	Seeing	Ptg Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
										F = 0.220	
										00 128 1029 8 1	
* Note, that Previous slit width noted to have been set at .280 on micrometer											
T = −00.5°C F = .225				echelle 18.00	×300/5685	60μ = .237 * 400μ 5320Å		1	focus test		
"						400μ = .225		2	Not back'd up tonight		

pg# Sun/Mon

Date Dec 17/18 Observers Hm/In

Emulsion Batches: .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10503/4	Inboard/outboard					2h 50W			
505	bias(4)			17:11					
506	comp							ThAr	1
507	HD 218470	230313	48° 4504	17:24:19		01324 W			1800
508/509	Comp (2)							ThAr	1
510	HD222368	233448	050503	18:01:49		019 W			1800
511	Comp							ThAr	1
512	HD222368	"	"	18:35:10		052 W			1800
513	Comp							ThAr	1
514	bias(4)			19:07:48					
515	HD222368	"	"	1910:50		128 W			1800
516/517	Comp (2)							ThAr	1
ce10518	HD222368	"	"	[illegible]		2 [illegible] W			[illegible]
19	Comp							ThAr	1
20	BIAS(4)								

Spectr. Temp. -100.5 Dome Temp./Hum. -27°C/20.7% Transparency Conditions Good, some cirrus 318

Focus 0:225

Spectr. Temp. 90 began Dome Temp./Hum. -5.0°C/78.1% increasing haze

CCD 0 0128 1024 8 1

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				Echelle 1800 f/11	300/5.85 0nm Tilt	100μ 400μ	6520Å	1 1/2	Hyd.		1.1Å/ 4024
										CCD 0256 1024 41	
								3			
								3			
88	3-5"	5.7	FSV					4		HR 8805 (zenith) (200/1 S/N) (2 comps)	1.8K
		~~4.13~~	~~FTV~~					3			
75		4.13	FTV					5	St. Vel	HR 8969 (>300/1 S/N)	4.7K
								3			
50	3"	4/3	FTV					6		3.6K >>80 S/N	
								3			
								1/2			
59		4.13	FTV					5		3.9K S/N 7285	
								3			
~~7~~	3-4"	4.13	FTV					6		S/N 7310	4.~~7~~K
								3		~~S/N 78~~	
								1/2			

Prg #2 Sun/Mon

Date 1995 Dec 17/18 Observers Hm/Th

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10521	Comp							ThAr	1
22	HD26462	A 0601	05 15 46	20:55:14		133 E			900s
23	Comp							ThAr	1
24	HD26462	"	"	21:13:38		100E			1800s
25	comp							ThAr	1
26	BIAS(4)			21:46					
27	HD26462	"	"	21:48:02		025E			1800s
28	comp							ThAr	1s
29	HD26462	"	"	22:21:09		007 W			1800s
30	Comp							ThAr	1s
31	Bias(4)								
32	HD26462	"	"	22:52:x		043W			1800
33	Comp							ThAr	1s
34	HD26462	"	"	23:28:1		115W			1800
35	Comp							ThAr	1s

CCD
Spectr. Temp. −101.0°C ..... Dome Temp./Hum. −9.8°/77.9% Transparency Conditions .. hazy → cloudy .. 3.20

Focus ..... 0.225 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst. c d e	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				7.25 18.00	300/5695	60 400 μ	N 650 Å	3	Hml		
0		5.73	F4V					4		VB14 S/N ~100	0.7K
								3			
6		"	"					5		S/N ~180	1.5K
								3			
								1½			
8	4.5"	"	"					6		S/N ~160	1.2K
								3			
6		"	"					4		S/N ~150	1.2K
								3			
								~~5~~ 4½			
		"	"					5		S/N ~150	1.2K
								3		~~S/N ~150~~	
9	4"							6		~~S/N~~ S/N ~160	1.3K
								3			

page 3
37

Sun/Mon

Date 1995 Dec 17/18 Observers Hall/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Spectr. Exp Mtr
Ceb536	Bias(4)			00 00						
37	HD26462	4 06 01	05 15 46	00 01 47		1 49 W			1800	2
38	Comp							ThAr	1 sec	
39	HD26462	"	"	00 33 14		2 20 W			1801	0
40	Comp							ThAr	1 sec	
41	Bias(4)									
42/51	Flats x 10			01 15		2 26 W	+5 29	Tung	2s	
52/53	Inboard/Outboard Hartmann					2 32 W	"		111	

Spectr. Temp. −100.5°C Dome Temp./Hum. −7.0°C/80.3% Transparency Conditions: Increasing cloud 3.2?

Focus 0.225

Spectr. Temp. −100.7°C Dome Temp./Hum. −6.9°C 81.1%

Exp. Mtr.	Seeing	P.V. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CCD w/ 1200	300/5000	60 μM 400 μM		1/2	Acal		
2	4"	5.73	F4V					4		part cloudy S/N ~100	750
								3		Exposure meter Rebalanced	
0		5.73	F4V					5		Too cloudy => just noise	200
								X/3			
								1/2			
						60μ W=.277 600μ H=.205		2			15K
								7/8	focus,	CCD FWHT 0 0128 1029 8 1	

All to Perseus's F drive CC 200 Controler then Reset

3/23 PG#1 Mon/Tues

Date 1995 Dec 18/19 Observers KK/TM

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
CE10554	Hartmann - inboard							ThA	1s
10555	Hartmann - outboard							ThA	1s
10556	bias (4)								
10557	bias (4)			17 0037					
10558	comp							ThAr	1s
10559	HD 217014	22 52 33	+20 13 57	17 ~~22~~ 08:31	17 ~~22~~ 22:30				832s
10560	Comp							ThAr	1s
10561	HD217014			17:2603	17:37:20	0 12 W			668s
10562	Comp							ThAr	1s
63	Bias (4)			17 39					
64	Comp							ThAr	1
65	HD 8890	01 9234	+86 46 26	17 48 56		3 19 E			90
66	Comp							ThAr	1
67	HD 8890	"	"	17 52 36		3 16 E			90s
68	Comp							ThA	1

Spectr. Temp. ..... Dome Temp./Hum. −3°/72% Transparency Conditions ..... 3.24.

Focus . . 0.225 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

0 0 256 1024 4 1
−100°C

Exp. Mtr	Seeing	Dir. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				echelle 18.43	3.0° 0.5800	60μ	6300A				
										0 0 128 1024 8 1 T = −125°	
								3			
40	3"	553	G5V					4	51 Peg		
								3			
46		553	G5V					5			
250		20	F8Ib					5	HR pgm.		
270								5			

3rd pair Mon/Tues

Date ..Dec. 18/19... Observers ..KK/LTs.....

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
1ce10569	HD8890	01 27 34	-86 46 26	17 55 43		3 12 E			10s
70	Comp							ThAr	1s
71	comp							ThAr	1s
72	HD209791	22 00 54	-64 08 00	18 26 14		2 09 W			645
73	Comp							ThAr	1s
74	HD209790	22 00 54	-64 08 26	18 39 04		2 12 W			361
75	Comp							ThAr	1s
76	HD209791			18 46 34		2 28 W			660
77	Comp							ThAr	1s
78	BIAS(4)								
79	Comp							ThAr	1s
80	HD 6582	1:01:37	-54:25:47	19 08 49	19:[illegible]:40				397
81	Comp							ThAr	1s
82	HD 6582			19:17:45	19:23:20				337
83	Comp							ThAr	1s

Spectr. Temp. ..... Dome Temp./Hum. −5.5°C 66% Transparency Conditions . PART cloudy ..... 32.6.

Focus .... 0.225 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

MAX ADU

Exp. Mtr.	Seeing	Pk Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
160		2.0	F8Ib	coudé 18193	300l 0.5840	60μ W 400μ H	6300Å	5		1 Doc + 0A min	
								3			
60		5.30	dF7					4			570
								3			
105	4.5"	4.80	A3m					5		HDS 1500AB Bright Eyepiece	920
								3			
43	4"	5.30	dF7					4		some cloud	
								3			
80											
80											

27 3 Mon/Tues

Date 1995 Dec 18/19 Observers KK/TM

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Spectr. Focus Spectr. Exp Mtr
CE10584	HD6582	1:01:37	54:25:47	19:25:01	19:31+20				374	50
85	Comp							ThAr	1	
86	Comp							"	1	
87	HD46!4A	0 4303	+57 1706	19 3822		0 21W			54	42
88	Comp							ThAr	1s	
89	HD4614B	"	"	19 40 30		0 36W			816	40
90	Comp							ThAr	1s	
91	HD4614A	"	"	19 5606		0 34W			80	30
92	Comp							ThAr	1s	
93	Comp							"	1	
94	HD16895	2 3722	+48 4820	20 0758		1 01E			525	30
95	Comp							"	1s	
96	HD 16895B			20 13 18		0 19E			2426	40
97	Comp							"	1s	
98	HD16895			20 5604					117	42
99	Comp									

328

Spectr. Temp. ..... Dome Temp./Hum. -5.9°C 64.3%H Transparency Conditions ..P.CLR T. Clear.....

Focus .....225.....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr	Seeing	P Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
80				echelle 18.43	~~1843~~ 1843 .5800	60u 400u	G300A				
								3			
								3			
42.		3.45	GOV					4		ADS 671A	
								3			
40	4"	7.51	K7V					5		ADS 671B	
								3			
30		3.45	GOV					6			
								3			
								3			
30		4.13	F7V					4		ADS 2081A Brighter one.	
								3			
40	3-4"	9.87	M1V					5		ADS 2081B Mostly cloudy	
								3			
42								4			750

MAX ONLY 7 ORDER ABOVE BIAS

Mp4 Mon/Tues

Date 1995 Dec 18/19 Observers KK/Th

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce10609	Comp							ThAr	1
601	HD20902	3 17 11	+49 30 19	21 06 11		0 45 E			65
602	Comp							ThAr	1
603	HD20902			21 09 13					93
604	Comp							ThAr	1
605	HD20902			21 12 38		0 39E			97
606	Comp							ThAr	1
607	BIAS (4)								
608	Comp								
~~604~~ 609	HD 10780B	1:48:31	+63:21:32	21:26:53		1 48W			2202
610	comp							ThAr	1
611	~~Comp~~ HD10780	1 48 31	+63 21 32	22 07 30		1 57W			344
12	Comp							ThAr	1
13	HD10780	1 48 31	+63 21 32	22 18 39		2 06W			234
14	Comp	Not var. Hen						ThAr	1

Spectr. Temp. ..... Dome Temp./Hum. -7.0°C 72%H Transparency Conditions ... Mostly clear again 330

Focus ..... 225 .....

Spectr. Temp. ..... Dome Temp./Hum. ..... max

Exp. Mtr.	Seeing	Pos./ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				echelle	300/ 5800	60u H 100u H	6300Å	3			
370	3"	1.79	F5					6			4.8K
								3			
320								6			
								3			
475								6			5.8K
								3			
								1/2			
								3			
40		≈8						2a		South 1° from HD 10780 faint comp by mistake	
								3			
60		5.63	KO					2			
								3			
42								2			
								3			

3m P5 Mon/Tues

Emulsion Batches:

Date 1995 Dec 18/19 Observers K.K./T.H.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
~~cc10615~~	BIAS(4)			22 23					
615	Comp							ThAr	1
616	HD 224844	3 31 46	+00 05 04	22 29 27	22:37	W			~~444~~ 48
617	Comp							ThAr	1
618	HD 224844	"	"	22:38:08	22:40:40±	W			151 44
619	Comp							ThAr	1
620	Comp							"	1
621	IRIS	4 05 26	+21 43 17	22 46 49		0 24 W			
622	Comp							ThAr	1
623/~~632~~	FL HIS x 10			23 13		0 30W	+21°	ThAr	15

CCD
Spectr. Temp. -101.8°C Dome Temp./Hum. ..... Transparency Conditions ... Part. Cloudy 33%

Focus .225

Spectr. Temp. ..... Dome Temp./Hum. -7.6°C 70% H

Exp. Mtr.	Seeing	Hg Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
						60u 400u	H=.225	1/2			
								3			
68								4	std vel		
								3			
44								4			
								3			
								3			
10		75	G2 V					5	std vel	Cloud a third minor planet Field drawn clock. + out!??	
								3			
						600u	H=.205	1			9K
	All to Persons c F DRIVE										

Tues/Wed.

Date 1995 Dec. 19/20 Observers Day/Tm

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
~~46~~ 47	J4/Outbound	Hartmann				≈0	+41°	FeAr clear	60/90
CC37648/49	Bias(4) (written twice, I seems)								
CC37650	Comp							FeAr	60s
CC37651	HD8890	1 22 34	88 46 26	20:53:03		-03 15E			97s
52	"	"	"	20:55:59		-0295E			171s
53	"	"	"	20:59:41		-0013E			123s
54	Comp							FeAr	60s
55	Comp							FeAr	60s
56	HD20902	3 1M 11	49 30 19	21:33:44		-0 9 9E			348s
57	"	"	"	21:39:53		-0 2 2E			360s
58	"	"	"	21:46:18		0 2 50W			185s
60	Comp							FeAr	60s
59 61-69	Flats x10					0 22W	+50°	Tungs	33s
70	BIAS(4)			22 11					
71	Comp							FeAr	60s

CCD
~~Spectr~~. Temp. -100.3 Dome Temp./Hum. -10.3°C/67.8 Transparency Conditions .. Very Cloudy 33½

Focus 7.05

Spectr. Temp. Dome Temp./Hum. C lambda

Did you use a guiding? N/A

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
13G39 Filter				CASS CCD	1800l/mm G=4475	306	4300Å	3/4	Focus		MAX ADU
				G=4475				1/2			
								5			
11800	8⁴	20	F8I6					6	Dby		4.4K
11400								7	"		6.3K
11300								8	"		4.8K
								9			
			~~F5I6~~					10	~~Dby~~		
10064		B 227	F5I6					11	Dby/Std.		4.9
10120			"					12	"		
10200			"					13	"		
								14			
								15		15K- 125K	
								1/2			
								16			

#2 Tues/Wed.

Date 1995 Dec. 19/20 Observers Dby/Tvn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CCD37672	HD65301	7 52 58	59 19 08	22:20:03	-	-3 36 45 E	59 3 36 N		1600s
73	Comp			22:48:19				FeAr Clear	60s
74	HD65301	7 52 58	59 19 08	22:50:35					1167s
75	Comp							FeAr Clear	60s
76	HD65301	7 52 58	59 19 08	23:15:12					1275s
77	Comp							"	60s
78	BIAS(4)								
79	Comp							FeAr Clear	60s
80	HD60335	7 28 54	+43 15 03	23:47:13		-1 32 04 E	48 2 6 N		2160s
81	Comp							FeAr Clear	60s
82	HD60335	7 28 54	43 15 03	00:26:29					2040s
83	Comp							FeAr Clear	60s
84	HD60335	7 28 54	43 15 03	01:03:53					2476
85	Comp							FeAr clear	60s
86	Bias(4)								

CCD
~~Spectr.~~ Temp. -100.4 Dome Temp./Hum. -11.6 / 65.26 Transparency Conditions Cloudy / Cold 336

Focus 7.05

~~Spectr.~~ Temp. Dome Temp./Hum. Columbia

MAX APP

Exp. Mtr.	Seeing	Pig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
10508		B 6.16	F2V	CASS CCD	G 4475	306	4300Å	17	Dby		V
								18			
10155	·	B 6.16	F2V					19	Dby	(170/1 S/N)	3.4K
								20			
10133	6-10							21	Pby		3K
								22			
								1/2			
								23			
10097		B 6.33	F0					24	Dby		3K
								25			1K
10065		B 6.33	F0					26	Dby		
								27			3.2K
10043		B 6.33	F0					28	Dby		
								5			
								1/2			

#3 Tues/Wed.

Date 1995 Dec. 19/20 Observers Dby/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC37687	Comp							FeAr Clear	60s
88	HD89025	10 11 08	23 54 07	01:57:06		-2 39 6E	23 25 54N		237s
89	"	"	"	02:02:06		2 17E			1237s
90	Comp								
91	B/H S(4)								
92/93	Inboard /out BOARD					2 13E	+23°	FeAr Clear	60/180

CCD
Spectr. Temp. -100:4 Dome Temp./Hum. -14:4/67% Transparency Conditions Cloudy 33.8

Focus 7:05

CCD
Spectr. Temp. — °C Dome Temp./Hum. -14.4°C / 66%H

C Lambda

Exp. Mtr.	Seeing	Pig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
8639 Flat				CASS CCD	G4475/ 1800nm	306.	4300	6	~~Dbg/Std.~~		MAX ADU
9278	10"	B 3.75	FOIII					7	Dbg/Std	in thick clouds -	2.5K
3280								8	"	looks like snow's coming	
								9			
								10			
	T = -14.4°		F2 = 705					29/30	focus to 3		

#1 Wed/Thur.

Date 1995 Dec. 20/21 Observers Dby / Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CG80289/83	HD 130139	02 02 18	+43 59 07					4x	67ms
CG80289/85	"					00 28W	85° Hlt	2x	133ms
CC37694/95	Inb / outboard Hartmann					00 10W	44		60/90
96	BIAS (4)			21 00 56					
97	Comp							FeAr	60s
98	HD6397	0 59 49	+14 24 30	21 10 31		02 27 W	14 55 N		2167s
99	Comp							FeAr	60s
CC37700	HD6397	0 59 49	+14 24 30	21 50 07		02 45 W	14 55 N		1220s
01	Comp							FeAr Clear	60s
02	HD6397	0 59 49	+14 24 30	22 14 07		03 30 W			2400s
03	Comp							FeAr Clear	60s
04	Bias (4)			22 56					
05	Comp							"	60s
06	HD209027	3 17 11	+49 30 19	23:03:06		01 19 W			56
07	"	"	"	23:04:16		01 21 W			61
08	"	"	"	23:05:37		01 22 W			72

CCD ~~Spectr~~. Temp. -100.3°C ..... Dome Temp./Hum. -9.6° 68.2% H Transparency Conditions. PURT clear 340

Focus ... 7.08 ..... 90 again of course 1214 o

Spectr. Temp. ..... Dome Temp./Hum. ..... Clambda 420 0 50 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Pig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
BG 39 F: Hg	4"	V 6.10R	G8III	CASS CCD ELEV ccd guider	1200 l/mm G=4475	Above 300 u	S1-1		Seeing Test	ALT: 85° Dome NW	Max Adu.
									u	Light NW wind ONLY NE fan on now	
T=-9.6°C		F:7.08				306u	4300Å	3/4	focus Test	Set for slightly cooler.	
								1/2			
								5			
10100	4-5	B 6.09	F4II-III					6	Dby pgm	counts slowed by clouds	3.4K
								7			
10200		B 6.09	F4II-III					8			
								9			
5703	5"	B 6.09	F9III-III					10		(180/1 S/N)	
								11			
								1/2			
								12			
12968		B 2.27	F5V6					13	Dby/Std		7K
3418		"	"					"	"		
3400		"	"					"	"		

#2 Wed./Thurs.

Date 1995 Dec 20/21 Observers Day/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
CC37709	Comp							FeAr Clear	60s
10	Comp							"	"
11	HD36673	5 28 19	-17 53 38	23 17 32	-0 22 E				65/s
12	Comp							FeAr Clear	60s
13-27	Flats x10					0 20E	-17 50	Tung	33s
CC37723	BIAS(4)								

CCD
~~Specir~~. Temp. -100.3°C Dome Temp./Hum. 106/65.9? Transparency Conditions Cloudy 342

Focus 7.08 (CCD)

Specir. Temp. -101.5°C Dome Temp./Hum. clouded

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				CASS CCD	1800/ G=4475		4300Å	14			Max Adu.
							3064 sh	15			
3575		B 2.79	FOTO					16	Dby/Std.	through clouds/clouded over	
								17			
								18			
								1/2			

343 pg #1 Tues/Wed

Date 1995 Dec 26/27 Observers [Blank] / Tom

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
c 377 24/25	Inboard / outBoard	HeArTungsten		17 56		00 14W	+46°	FeAr clear	50/75
26	BIAS (4)			17 59					
27	Comp							FeAr clear	60s
28	HD192518	20 10 08	+28 23 30	18 07 31		4 16W			1200
29	Comp							FeAr clear	60s
30	Comp							FeAr clear	60s
31	HD210459	22 05 33	+32 41 15	18 35 17		2 37W			541
32	Comp							FeAr clear	60s
33	Comp							FeAr clear	60s
34	HD214946	22 36 47	+44 29 00	18 52 01		3 03W			2964
35	Comp							FeAr clear	60s
36	BIAS (4)			18 44					
37/45	FLATS x 9					3 10W	+45°	Tung Ap=clear	22s
46	Comp							FeAr clear	60s
47	HD34759	5 14 44	+11 42 17	20 02 47		3 01E			913
48	Comp							FeAr clear	60s

CCD Spectr. Temp. −100.2 °C Dome Temp./Hum. −8.2°C 70%H Transparency Conditions Fine 344

Focus 7.04

Spectr. Temp. −102.2°C Dome Temp./Hum.

90 C gain

416 0 50 1024 41 CCD Font

Exp. Mtr.	Seeing	Pfg Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG39 Filter				CASSCCD	1800 l/mm G= 4592	36u	4415 Å I IIa	3/4	focus test	Set for slightly cooler	max HDU
								1/2			
								5			1.3K
14,800	8"	5.36	A7 IV n					6	A shell Bkg	The Hot Pixel col #27	4.7K
								7			
								8			
15,750	6-10"	4.75	F5 III					9	A shell Bkg		5.3K
								10			
								11			
7000	5-8"	7.26	A5					12	SBJ Bkg	7 200/1 S/N	
								13			
								1/2			
								14			13K
								15			1.1K
15,700	6-8"	V 5.09	B5 V					16	Bkg pgm	OFF center, center ~ col 32	~~1.1K~~
								17			

3p42 Tues/Wed

Date 1995 Dec 26/27 Observers [illegible]

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37749	HD347594	5 1444	+41 4217	20 242		2 41 E			820
50	Comp							Fe Ar clear	60s
51	BIAS (4)			20 42					
52	Comp							Fe Ar clear	60s
53	HD37468	5 33 44	-02 3928	20 5010		2 40E			323
54	Comp							"	60s
55	ADS4241 D	"	"	20 5919		1 55E			2475
56	Comp							Fe Ar clear	60s
57	HD37468	"	"	21 4553		1 45E			292
58	Comp							"	60s
59	BIAS (4)			21 53					
60	Comp							Fe Ar clear	60s
61	HD37017	5 3025	-04 3336	21 5941		1 12E			1247
62	Comp							"	60s
63/64	Inboard/outboard Hartmann			01		0 0	+33	Fe Ar clear	50/75

Spectr. Temp. CCD −100.2 °C Dome Temp./Hum. −7.4°C 73.0%H Transparency Conditions Slightly hazy 34.6

Focus 7.04 Some cloud moving in.

Spectr. Temp. ____ Dome Temp./Hum. −10.7°C 73.5%H

c d

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
BG 39 Filter 15,500	6"	V 5.09	B5 V	CHSSCCD	1800 l/mm G-4582	306u	4415	16	Blue pgm	Repeated to center better	
								18			
								1/2			
								18			1.1K
17,150	5-7"	B 3.57	095 V					19	Blue pgm	σ on AB	6.6K
								20			
10,000	6"	B 6.3	B2 V					21		guided with AB off west end at slit	3K
								22			1.1K
16,200		B 3.57	095 V					23			
								24			
								1/2			
								25			
A400	6-8"	6.42	B2 V p					26		cloud at end	
								27			
T= −9.5°C		Set F= 7.04						28/29	focus	Right on at mid point	

94 pg#1 Wed / Thurs

Date . 1995 Dec 27/28 Observers . MKi / TA

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc3776⁵/₆₆	Inboard/outBoard					0 10W	+40	FeAr clear	60/60
67	BIAS			0025					
68	Comp							FeAr clear	60s
69	HD50384	0647538	+455709	002852		0 13E			357
70	Comp							"	60s
71	Comp							"	60s
72	Nova Cas 95	01 04 55 ~~1995~~	+53 59	00 4903		5 55W			190
73	Comp							"	60s
74	Nova Cas 95	"	"	005630		6 07W			395
75	Comp							"	60s
76	BIAS (4)			01 07					
77	Comp							"	60s
78	BM Cas	00 48 36	+63 3300	012527		6 44W			318
79	Comp							"	60s
80	BM Cas	"	"	01 3417		7 06W			1112
81	Comp							"	60s

CCD
Spectr. Temp. ...-100.2°C... Dome Temp./Hum. -8.0° 70.1%H Transparency Conditions ...Clearing mostly...

Focus ...6.99.....

Spectr. Temp. ..... Dome Temp./Hum. -9.4°C 71.6%H 90 cgain

420 0 50 1039 41 CCDFMT

348

Exp. Mtr.	Seeing	Fr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
T=-8.0 F6.94				CASS CCD	1800l/mm @ 6100	306	66009	1/2			1MAX 4DU
0650 F:Hex								3/4			
								5			32A
2400		634	KO III-IV					6	Just the a-coeler normalization star,		
								7			
								8		Telescope East side now	
164	5-6"	*705.27	Rough estimate.		Plan magstar Field. IHH probably in 8th mags.			9		Sky clear here.	7K
								10			
335	4"6"							11		* Field for mag comparisons drawn.	15K
								12			
								1/2			
								14		* Intensities needed to be slightly higher than Bellatrix ces 95	
245	4-6"	(8.8-9.3)						15		A RH -00 0035 16 Del -00 0048 (Same approx as Nova Ces 95)	15K
								16			
820								17			5K
								18			3.2K

349 89#2 Wed/Thurs some [Bln] service

Date 1995 Dec 27/28 Observers Jn mtn clocking

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37782	Comp						Tel Encoder	FeAr clear	60s
83	AC +80 7	00 07 53	+80 06 31	02 11 43		8 32 W	+80 39		1514
84	Comp							"	60s
85	BIAS(4)								
86	Comp							FeAr clear	60s
87	HD18411	2 57 22	+39 15 45	02 59 49		6 13 W			233
88	Comp							"	60s
89	Comp							"	60s
90	HD 34759	5 14 44	+41 42 17	03 11 25		4 06 W			430
91	Comp							"	60s
~~792~~ 811	FLATS x 20		Tel Still	East side		4 10 W	+41 50	TUNG Aper 4	8s
812	~~BIAS(4)~~ Comp		Tel Now west side					FeAr clear	60s
813	HD 120315	13 43 36	+49 48 45	03 41 35		3 56 E			56s
14	Comp							"	60s
15/16	Inboard/Out Board	Hartmann				3 50E	+50°	"	60/60
17	BIAS(4)								

Spectr. Temp. ..... Dome Temp./Hum. -9.4°C 71.5%H Transparency Conditions. Mostly. clear ..... 350 ....
Focus ..... 6.94 .....
Spectr. Temp. ..... Dome Temp./Hum. -9.7°C 72.5%H → clouding in

Exp. Mtr.	Seeing	Mag	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
OG 550 Filter				CASSEGD	1200 l/mm G: 6100	306μ	6600A	18		Telescope st. ll east side.	
300	5-6"	10.7	M0	No He em seen (Looks like an M)				19	Vgs He pgm	using same offsets as for HD 3440, on 80° Dec star. Δ RA −00 01 25 Δ Dec −00 00 21	
	Faster star scan 3' South of observed star							20			
								1/2			
								21		Telescope still East side.	
4000	8"	1.70	A2V					22	Bin Telluric Std	2.40 AirMass	7-4K
								23		Cloud at times	
								24			
5,300	3'-5"	5.09	B5V					25	Bh pgm	1.36 AirMass	10K
								26			
								27			12K
								28			
6000		1.86	B3V					29		Thick Cloud	10K
								30		1.31 AirMass	
T −9.7°C F=72.3%H								3/4	focus test		
								1/2			

Pg#3 Wed/Thurs

Date ... 1995 Dec 27/28 .. Observers [R.M.] ... T.H. .....

Emulsion Batches:

.....

.....

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc37818	Comp							Felt clear	60
19	HD87901	10 03 03	+12 27 22	03 57 57		0 01 E			40
20	Comp							"	60

Spectr.

Focus .. CCD Spectr.

Exp Mtr

7600

Spectr. Temp. ..... Dome Temp./Hum. -9.8°C 72%H Transparency Conditions ... cloudy ... 3.52

Focus ... 6.94 ...

Spectr. Temp. CCD -101.2°C ... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm G6100	306u	G600B	5			
7000		1.36	B7V					6	Telluric Std	1.18 Airmass	
								7			

57

Thurs / Fri

Date 1995 Dec 28/29 Observers [Bln] Han mtn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc3778 21/22	Inboard / Outboard Hartman			17 07		0 10W	+40°	Fehr Clear	60/60
23	BIAS (4)			17 13					
24	Comp							"	60s
25	HD 217675	22 57 19	41 47 19	17 29 59		0 32W			71s
26	Comp							"	60s
27	Comp							"	60s
28	HD 177724	19 00 48	+13 42 53	17 31		4 34W			85s
29	Comp							"	60s
30/~~39~~	FLATS x ~~10~~ deleted					1 38E	+14°	JUNG Ap 1/4	8s
~~50~~	~~BIAS (4)~~ (Oh, should have kept this I guess)								
51	~~FLAT overwrite~~								
	~~Remove~~ seed file to cc3778 39								

Spectr.
Focus
Spectr.
Exp Mtr

CCD
Spectr. Temp. −102.0°C Dome Temp./Hum. −4.7°C 68%H Transparency Conditions .. Fine ... suddenly 3/8 cloudy

Focus ..... 6.94 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

* Grating tilt unchanged from previous night. Actual central λ = 6597Å, not TG6600Å

MAX ADU

Exp. Mtr.	Seeing	P.V Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
06:30 2.11a	T- −4.7			CASSCCD	150 l/mm G-6100*	306.	*6592Å ± 2A	3/4	focus	Night on a Blue end	
								1/2			
								5			
5000	<3"	3.62	B6 III pe+AZp					6	Tel. encoder while	Star. just a test spectra setting up encoders	
								7			
								26			
5000	3"	2.99	A0V n					21	Telluric Std	2.40 AIRMASS	
								22			
								23c			12K
								~~1/2~~			
								~~23~~			

Date ..... Observers .....

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp